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Montana bird
distribution

P. D. Skaar's

Montana Bird Distribution

Revised by:
Dwight Bergeron
Cedron Jones
David L. Genter
Daniel Sullivan

Fourth Edition
January 1992

Montana Natural Heritage Program
Special Publication No. 2

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P. D. SKAAR'S

MONTANA BIRD DISTRIBUTION

Fourth Edition

Revised By:

Dwight Bergeron
800 Glendale
Helena, MT 59601

Cedron Jones
940 Wilder Avenue
Helena, MT 59601

David L. Genter
1515 East Sixth Avenue
Helena, MT 59620

Daniel Sullivan
851 Silverette
Helena, MT 59601

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Montana Natural Heritage Program
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PLEASE RETURN

This map insert may serve as a guide for quickly identifying general locations within latilongs and quarter latilongs. We recommend that it be used in conjunction with the official Montana Highway Map. For rare bird reports and sightings near the latilong borders, please use appropriate BLM 1:100,000 scale maps or USDA Forest Service maps.

Map courtesy of Montana Department of Transportation and Montana Travel. All rights reserved.

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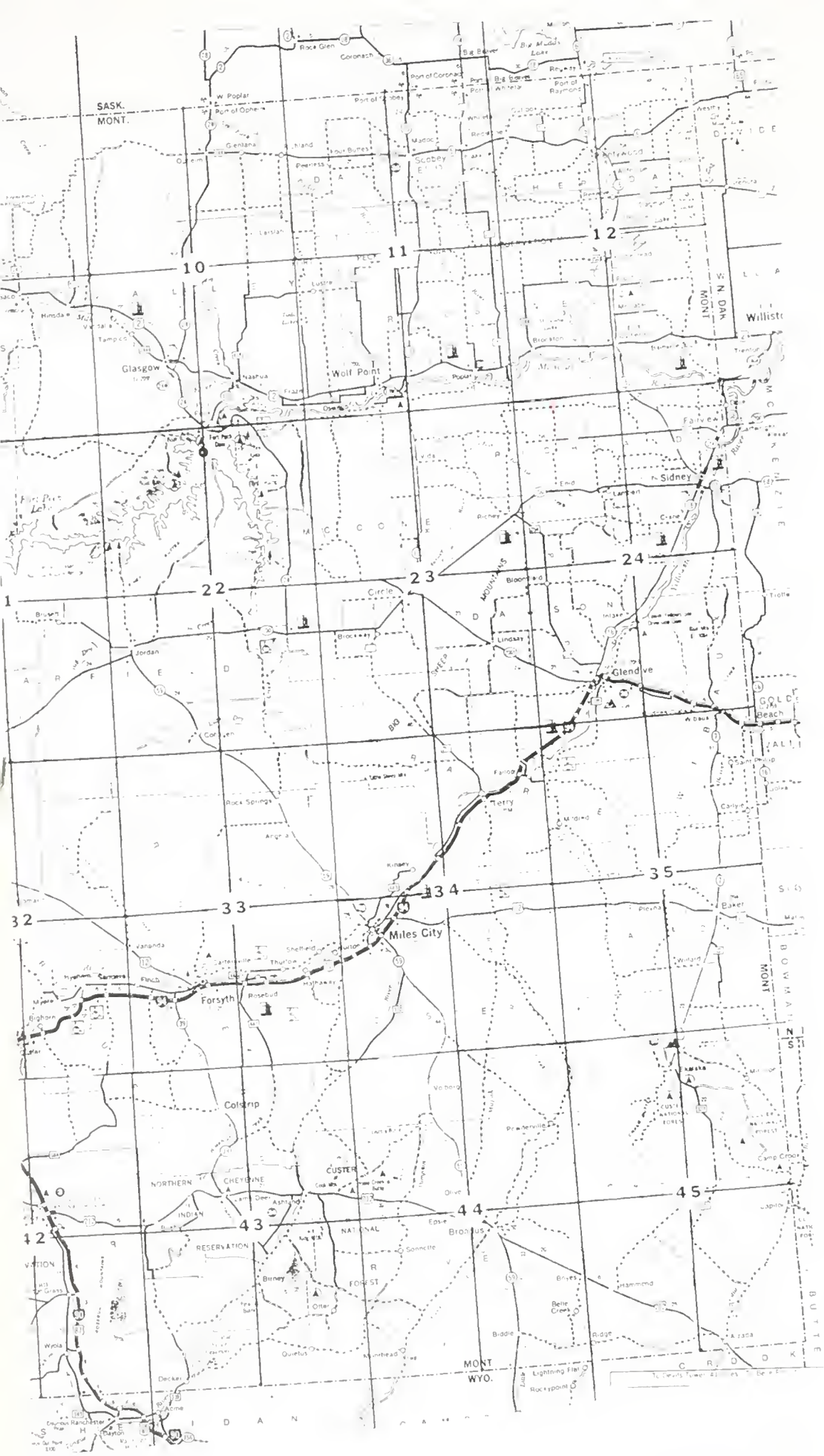

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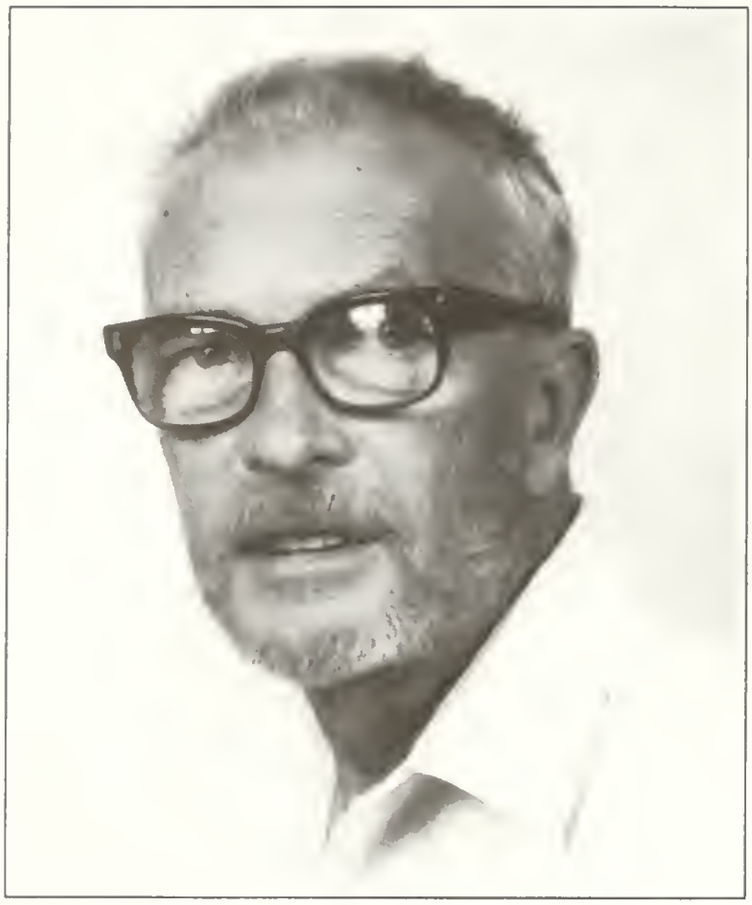
BIOGRAPHICAL NOTE

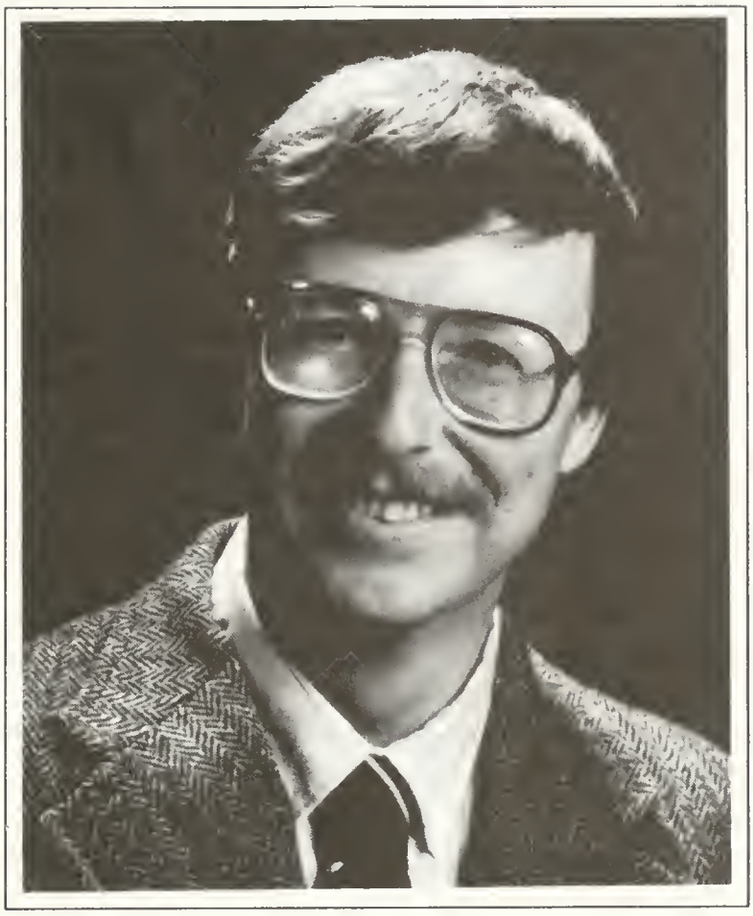


Palmer David Skaar

No one person has done more to further the study of Montana birds than Dave Skaar (1923-1983). Dr. Skaar came to Montana in 1957 to join the faculty of Montana State College (now MSU). He was widely respected as a microbial geneticist at that time, and during his career he wrote extensively in that field. He also founded and directed the Genetics Institute at MSU, and served for four years as editor of the Proceedings of the Montana Academy of Sciences. Dave's involvement in the study of Montana bird distribution made him well-known and respected throughout the state. His enthusiasm was contagious, and his patience and modesty were exemplary. He was not one to discourage or belittle the amateur and his words were always encouraging, never demeaning.

Dave pioneered the "latilong" concept in distributional studies. His definitive *Birds of the Bozeman Latilong* was published in 1969 and was a model regional bird account. In 1975, Dave published the first edition of *Montana Bird Distribution*. The impact of this book was tremendous. It motivated and mobilized amateurs and professionals across the state, and resulted in careful ornithological scrutiny of vast areas of Montana that had never before been studied. The Fourth Edition of *Montana Bird Distribution* is one of Dave's ongoing legacies. Future editions will continue as a direct result of Dr. Skaar's inspiration and visionary efforts.

DEDICATION



Larry Steven Thompson

Larry Thompson (1949-1988) was born in Kalispell and dedicated his life to the exploration and study of Montana's rich natural heritage. Larry attended Montana State University and received a Masters Degree from Washington State University, completing a thesis on the biogeographical relationships of bird populations found on Montana's prairie mountain ranges. For 12 years, beginning in the mid-1970s, Larry worked at the Montana Department of Natural Resources and Conservation, involved in the oversight of facility siting. In 1985, Larry became the first manager of the Natural Resource Information System where he began the job of cataloging Montana's natural resources.

Accomplished as he was in his work, it seemed to be his time away from work that touched the most people. He wrote extensively, publishing scientific and popular articles, including one of the Montana Geographic Series, *Montana Explorers*. He co-authored the Third Edition of *Montana Bird Distribution*. He was a natural musician and a gifted artist. (Some of his drawings illustrate this edition.) Above all, Larry was a naturalist. He was interested in, curious about and saw beauty in everything -- big, small, obscure, animal, plant or rock -- it didn't matter. No one could be around Larry without seeing the world differently and having a new appreciation for things commonly passed by. As a person and a naturalist, Larry's contributions to the quality of life and the knowledge and conservation of Montana's natural resources were remarkable. We respectfully, and with great affection, dedicate this edition to him.

PREFACE

The Fourth Edition of P. D. Skaar's *Montana Bird Distribution* is the latest in a series of contributions to Montana ornithology. It was Dr. Skaar who pioneered the use of latilongs as a mapping unit for bird distribution and biogeographical studies. Since the publication of Skaar's first edition (1975), several other states and vertebrate groups have been mapped using the latilong system. In this edition we have begun recording bird distribution in quarter latilong units in an attempt to more accurately display each species' spatial distribution.

This edition begins an effort to provide a visual display of current bird distribution in Montana. It is a transition from previous editions, where all distribution data from the earliest recorded sightings to the most current were represented, to subsequent editions, where only data since the last edition will be represented. We believe this will document changes in bird distribution, drawing attention to contractions or expansions which, we hope, will result in efforts to determine the cause for these changes.

Although historical data will not be displayed in future editions, these data will not be lost. Presently, all data represented in previous editions as well as this edition have been entered into a computer database. These records contain more data than is represented by the symbol on the distribution maps and often include multiple sightings per latilong. The bird distribution database contains over 25,000 individual records. It is housed and maintained at the Natural Heritage Program in Helena and will be updated continuously as additional data are received. The database will be available for use by anyone interested in the distribution of Montana birds.

We plan to publish the Fifth Edition in 1995 with subsequent editions every 5 years thereafter. The success of this effort, however, will depend on the dedication of the birding public, amateur and professional, in submitting observations. We are no longer interested **only** in new latilong records and rare sightings. It is critical that contributors record and report sightings on **all species** for the appropriate quarter latilongs during each revision period.

These changes are not cast in concrete. We want to know what you think of them, and so we have included a Response Form at the back of the book. Please tear it out, fill it in and return it to us.

A few people, with some time and a little money, compiled this publication. In a greater sense, this is a product of hundreds, perhaps thousands, of individuals who made an effort and took the time to write down their observations and report them. These are people who see the beauty, grace, and diversity of birds, but understand that the conservation of bird populations and the environment upon which they depend requires awareness and knowledge. This publication is a tribute to those contributors and our thanks are extended to them.

Helena, Mont.
January, 1992

ACKNOWLEDGEMENTS

Dozens of contributors submitted the thousands of recent records to make this update possible. We are most grateful to those contributors who provided recent sightings (see p.108). Centrum data are from the Third Edition. The U.S. Fish and Wildlife Service's Breeding Bird Survey and the databases of the Montana Natural Heritage Program provided additional sources of information.

A steering committee was responsible for the overall production and fundraising for this Fourth Edition. Members include Janet Ellis, David Genter, George Holton, Cedron Jones, Deborah Richie, and Dan Sullivan, all of Helena. Dwight Bergeron was employed to compile data and assist in production. Special thanks to Dwight, Cedron, and Dan for their long and dedicated efforts in data entry, troubleshooting, and keeping things moving.

A verification committee was established to review rare bird sightings and provide advice and comment on a number of issues in the production of this edition. The verification committee is comprised of Chuck Carlson (Chair, Ft. Peck), Helen Carlson (Billings), Dan Casey (Kalispell), Dr. Bob Eng (Bozeman), Bebe FitzGerald (Billings), Harriet Marble (Chester), Terry McEneaney (Gardiner), Fritz Prellwitz (Malta), and Dr. Phil Wright (Missoula). We thank them for their continuing efforts and dedication to a better understanding of Montana birds.

Jim Senkler ably provided us with the design and programming of the database. We thank the Natural Resource Information System and the Montana State Library for staff time and computers. Don Skaar and Dennis Flath provided access to many post-Third Edition records and commented on the draft. Dan Sullivan obtained and compiled the data from the Breeding Bird Surveys. Margaret Beer provided technical support and tolerance for Dwight and Cedron to be on her computers and in her space for much of the past 6 months. Several individuals provided helpful suggestions and advice in planning and review of the project including Kristi DuBois, Shannon Heath, Sue Jackson, Cary Lund, and Don Stoecker. We thank them all.

Financial support for the project came with the cooperation of the following individuals and organizations: Montana Department of Fish, Wildlife and Parks (Dennis Flath & Deborah Richie), USDI Bureau of Land Management (Bob Haburchak), USDA Forest Service (Alan Christensen and Bill Ruediger), Stillwater Mining (Bruce Gilbert), Western Energy Co. (Bruce Waage), WESTECH (Dean Culwell and Pat Farmer), Last Chance Audubon (Helena), Yellowstone Valley Audubon (Billings), Bitterroot Audubon (Hamilton), Five Valleys Audubon (Missoula), William and Lee Ballard, the Montana Audubon Council, and Michael T. Schwitters.

Introduction

Birders in Montana have recorded the presence of 357 species over the past four decades. There are 259 species that regularly breed in the state. The total number of wintering species is 177. An additional 12 species are of hypothetical occurrence (see p.112), including several species that are expanding their ranges and will likely make their way into a future edition of the *Montana Bird Distribution*.

Physiography of Montana

Montana is characterized by 3 physiographic divisions: the Rocky Mountains of the western third, dominated by high rugged mountain ranges dissected with broad valleys; the central plains where island mountain ranges rise out of the grassy plains; and the eastern half in the Northern Great Plains with rolling grass-covered plains carved by major rivers.

Vastly different climate and vegetation occur in Montana. Continental air masses with cold, dry winters and hot summers dominate most of the state. Northwest Montana is more influenced by Pacific moist air with moderate temperatures. The plains range between -40°F(-40°C) and over 100°F (38°C), with annual precipitation between 8 inches (20 cm) and 15 inches (40 cm). Droughts can be frequent and severe. The Rocky Mountains are somewhat cooler and more moist. Annual precipitation generally increases with elevation, much of it as snow.

These factors, combined with Montana's geographic position among the Great Basin, Great Plains, and Northern Rockies, contribute to the great diversity and abundance of birds in our state. Land-use practices have also changed the abundance and distribution of our avifauna. Some species (such as the starling) tend to thrive in human-altered landscapes, expanding their range and numbers. Other species (such as the piping plover) require specialized natural habitat and may become increasingly rare or threatened by habitat changes or encroachment of competitors.

As we view the distribution of Montana birds over time, we will undoubtedly witness the introduction and expansion of some species and the continued decline of others, particularly those that are more specialized. Montana is a large, sparsely-populated state. It is difficult to conceive of high-intensity efforts to atlas birds as in other states. Until the financial and human resources become available, the application of coarse-scale distribution units such as latilongs will continue to be the most feasible. By refining our efforts to the quarter latilong, we will be recording the dynamic phenomena of statewide bird distribution to the best of our current abilities. As additional data are recorded by quarter latilong, we expect this effort to more effectively project species' distribution.

Latilongs as Mapping Units

Latilongs are rectangular units formed by successive parallels of latitude and meridians of longitude, each at one degree intervals (see map on back cover). They form a grid pattern across Montana that includes all or parts of 49 latilongs. The average dimensions of each latilong are 47 miles (76 km) wide and 69 miles (111 km)

long. This represents an average area of 3200 sq. miles (8436 sq. km) per latilong. Latilongs along the Canadian border are 5.4 percent smaller than those along the Wyoming border.

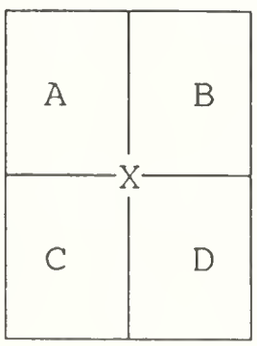
These nearly-uniform units form a global grid across middle latitudes that provide conformity between states and nations. The U.S. Fish and Wildlife Service's Breeding Bird Survey is based on this latilong grid. So successful was Skaar's early use of the latilong as a biogeographic aid (Skaar 1969, 1980), that several neighboring states have used latilongs for mapping bird distribution (Stephens and Sturts 1991; Kingery 1987; Oakleaf et al. 1982) and other vertebrate groups (Thompson 1982; Findholt et al. 1981).

The map on the back cover depicts the 49 latilongs and 185 quarter latilongs in Montana. This includes L48 and L49 which cover small portions of southwest Montana previously excluded from the first three editions. Also enclosed in this edition is a latilong map that has been superimposed over a state highway map. This is an extra aid that will permit accurate location of the quarter latilong (QLL) where an observation is made. For finer resolution when sightings are near boundaries and for reporting rare birds, please refer to the Forest Service, BLM, and USGS topographic maps to accurately determine the correct QLL location.

Quarter Latilongs

The most obvious change from the Third Edition is the use of quarter latilongs (QLL). QLL units are created by dividing each latilong unit into four quarters at the 30 minute degree mark between each degree of latitude and longitude. Each QLL cell retains the number of the latilong cell with the addition of a letter (A,B,C, or D) ordered left to right (Fig. 1). Thus, latilong 25 is now broken into 4 QLLs: 25A, 25B, 25C, 25D (see p.7). Each of the latilongs has the Third Edition data listed in the center (Example "X" Fig. 1). All of the new (post-Third Edition) data are presented in the quarter latilong positions.

Figure 1. Quarter Latilong Letter Code Sequence.



We recognize that the maps displayed in this edition are "busy" and may be confusing at first glance. However, a sufficient amount of new data did not exist to adequately represent the distribution of most birds in Montana. The Third Edition data are retained in the center of the latilong so that there is continuity between the old and new formats. In the Fifth Edition (1995) only the quarter latilong values, based on data submitted since Third Edition data, will be displayed. In the past, contributors have focused on

the rare species and new latilong records. Conversion to quarter latilongs and a commitment to continually update *Montana Bird Distribution* (MBD) requires a fundamental change in the way Montana birders list and submit their observations. For the effort to succeed, all species, common and rare alike, must be recorded for each QLL during each revision period.

Taxonomic changes and subspecies

All species names and taxonomic revisions follow the American Ornithologist's Union (AOU) Checklist of North American Birds, 6th edition (AOU 1983), as amended by the 35th through the 38th supplements (AOU 1985, 1987, 1989, 1991). The AOU has made several taxonomic revisions since the MBD Third Edition. These changes are reflected in the species lists and maps, where appropriate.

In consultation with the verification committee, we identified 5 species for which enhanced data collection for subspecies distribution is warranted. In some cases this is to provide better information for future taxonomic assignments. In others, it is simply of interest to maintain the geographic distinctions between taxa. The species names and maps do not display these subspecific ranges, but we are recording and maintaining records in the databases at the subspecific level. We request that contributors submit records for these species at the subspecies level, whenever possible.

Species for which information is kept on subspecies, races, or forms include:

Northern Flicker
- Red-shafted Flicker
- Yellow-shafted Flicker

Yellow-rumped Warbler
- Audubon's Warbler
- Myrtle Warbler

Dark-eyed Junco
- Slate-colored Junco
- Montana ("Oregon Junco")
- Pink-sided Junco
- White-winged Junco
- Gray-headed Junco

Northern Oriole
- Bullock's Oriole
- Baltimore Oriole

Rosy Finch
- Gray-crowned Rosy Finch
- Gray-headed (Hepburns's) Rosy Finch
- Black Rosy Finch

Other Changes

The first arrival dates for species were not included. There was no additional information to update the Third Edition. We have the capacity to record and manage information on arrival and departure dates for all species. We need several contributors to record and submit this information from various regions in the state. Please contact the editors at the Montana Natural Heritage Program for further information.

We have eliminated the "S" and "s" symbols for species documented by a specimen or photograph. Specimen data and photograph records will be entered into the database. Files for photographs, slides, or copies have been established.

Dr. P. L. Wright of the verification committee will compile a list of specimens, including the vertebrate collections where they are stored. This list will be available and updated as additions to the collections occur.

The symbols "?" (questionable sightings) and "l" (uncertain latilong location) found in the Third Edition are not used in this edition. The steering and verification committees will not accept records in these categories so the designations are dropped from this and future editions.

Evaluation of Records

A verification committee was established in June 1991. The committee established rules for conducting business and evaluating records. Criteria for suitable documentation were reviewed and a voting procedure established. The verification committee is responsible for accepting records of rare birds (less than 20 sightings) and sightings of birds outside their normal range. Contributors with observations in these categories are asked to submit a rare bird report describing their sighting (Appendix E). No rare or out-of-range records will be accepted without committee approval.

Species with Special Status

Any special status for each species is indicated by the letters and symbols which follow the common and scientific name.

n= Rare birds (fewer than 20 verified sightings) are identified by the letter "**n**" followed by the number of sightings. The most recent sighting is listed with location and date.

TES We have identified those species that are considered threatened, endangered, or sensitive in Montana or throughout their range by the symbol **TES**. Species assigned to this category are any one of the following: federally recognized endangered, threatened, or candidate species for listing under the Endangered Species Act; U.S. Forest Service sensitive species, as assigned by the Regional Forester; or species of special concern, as recognized by the Montana Natural Heritage Program and Montana Department of Fish, Wildlife, and Parks. A list of species in each of these categories is found in Appendix A. It is important to note that all of these lists are subject to change. For current information, contact one of the local offices of the US Fish & Wildlife Service; Montana Department of Fish, Wildlife, and Parks; US Forest Service; or Montana Natural Heritage Program.

SI Another group of species was identified as being poorly known in the state or as having unique breeding habits that warrant further study. There is a need for additional information on the distribution, breeding habits, and status of these "species needing additional information," or **SI**.

Contributors submitting sightings of **TES** and **SI** species are requested to submit detailed information. This information should include the date of observation, specific location, number of individuals, and details on nesting, if observed. This is an

important aspect of maintaining statewide information on species that are either more vulnerable, less visible, or experiencing range or population decline. Rare bird sightings are requested to be submitted on the rare bird report form (Appendix E).

Neotropical Migratory Species

There are many birds that breed or migrate through Montana and spend their winter in the "neotropics" (Central and South America). Recent evidence suggests that populations of some of these bird species may be declining. Thus, in 1990 the National Fish and Wildlife Foundation proposed a major initiative for the conservation of migratory land birds that breed in North America and winter in neotropical countries. Several major federal land management agencies, conservation groups, state fish and wildlife agencies, and academics have joined to develop the Neotropical Migratory Bird Program. This collaborative effort attempts to determine the causes for declines in our migratory bird populations. Part of this effort involves identification of species vulnerable to declines from either of the two primary causes suggested: fragmentation of breeding ground habitat in the U.S. and Canada, and loss of wintering habitat in Mexico, Central and South America, and the Caribbean.

A major initiative for research, monitoring, and management of migratory landbirds, has been established at the national and local levels. We have listed the Neotropical Migratory Bird species known to occur in Montana (Appendix B). The species included in the program are both long- and short-distance migrants. Wintering zones for species are identified and nicely handled in the "Conservation" subheading of The Birder's Handbook (Ehrlich et al. 1988). Additional information and activities are being developed by the local Montana Steering Committee of the Neotropical Migratory Bird Program, including a handbook, monitoring activities, study of habitat relationships, and international partnerships. For additional information on local activities, contact the Neotropical Migratory Bird Program Coordinator, Wildlife and Fisheries, U.S. Forest Service Northern Region, P.O. Box 7669, Missoula, MT 59807.

How to read maps and interpret symbols

Each species is listed by common and scientific name in taxonomic order. Order and family names are inserted to aid in grouping the species. A common name is placed in the top outside margin of each right hand page for the predominant group of species found on that page.

Information on the species' status is provided on the lines beneath some of the names. Symbols and their definitions are explained below. Further information is provided on page 4. See Appendix A (p.109) for a list of species.

n= Number of documented records (for species with fewer than 20 verified records).

TES Species considered threatened, endangered, or sensitive.

SI Additional information requested for these species.

introduced - Not native to North America or a native North American species transplanted to Montana.

The distribution maps are shaped in the general outline of Montana. Each rectangular block represents one latilong. Each symbol within the block represents the highest documented status for the species in each latilong or quarter latilong. All of the Third Edition data are presented in the center of the latilong block. The quarter latilong data are presented in the corners of the latilong block and represent observations submitted since 1985. The symbols used are as follows (see p.113, Appendix D, for complete definitions):

B Direct evidence of breeding (nest or dependent young observed).

b Indirect or circumstantial evidence of breeding.

t Observed, no evidence of breeding.

- Absent or no observations submitted.

The winter distribution of species is recorded between December 15 and February 15. Winter maps display data in latilong blocks only. However, post-Third Edition data are recorded by QLL in the database. The symbols and their definitions are:

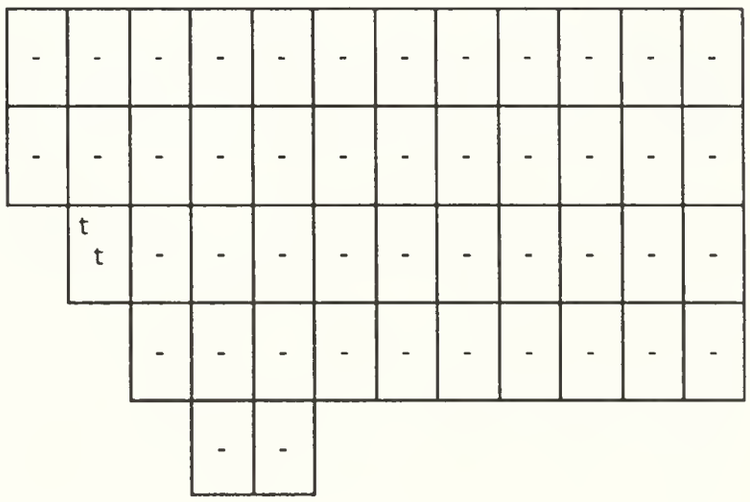
W Overwintering. Regular sightings during the winter period.

w Overwintering not yet documented, but species observed at least once between Dec. 15 and Feb. 15.

- Absent or no verified winter records submitted.

Example: In the map below, Third Edition data show a verified sighting of an American Flamingo in Latilong 25 by the presence of a "t" in the center of latilong block number 25. There is a "t" in the "A" quarter of the latilong block meaning that a sighting also occurred since 1985. Only 2 sightings have been recorded (n=2). The most recent sighting was in 1988 near Florence along the Bitterroot River. As designated by the symbol, "SI", more detailed information is requested if there are further sightings. In this case, because there are fewer than 20 sightings, verification by the verification committee is required before the report will be accepted. A rare bird report should be submitted. The winter map lists no winter (Dec 15 - Feb 15) sightings.

American Flamingo
Gardenus effigis
QLL 25A; April 1, 1988
Bitterroot River, Florence
n=2; SI



Submission of New Records

Contributors are asked to submit records in one of two formats.

1. Quarter Latilong Bird Lists: This is a list of bird species observed within a quarter latilong (QLL). If there were several birding trips within a single QLL the sightings from each trip should be summarized into a single master list for that QLL. For each species recorded, list the highest status observed ("B" greater than "b" greater than "t") and then the most recent observation date. Make one list per QLL in taxonomic (Field Guide) order. For full-page form, see p.115.

In areas where you live or that you frequent each year we would like a single master QLL list annually. If the status is listed as "B", briefly state the criteria used (i.e., nest, dependent young, etc.). A brief location description is requested (i.e., Bean Lake, Long Pine Hills, Chinook, Hwy 200, 10 miles west of Simms, etc.).

2. Single Observations (rare, out of range, and SI species)

These sightings require thorough, detailed descriptions. It will be best to use the Rare Bird Report Form found in Appendix E, however, any report format with sufficient information will do. Fill in the information only for items that you actually observed. Do not fill in items you felt you should have seen but did not. It is the exception where all possible criteria are seen. Complete the report as soon as possible following the observation while your impressions are fresh. Please submit any drawings or photographs; they will become part of the permanent record unless return is requested. All rare and out-of-range sightings are submitted to the verification committee. They can only judge your sighting based on your report. "It looked just like the picture in the book" won't pass.

Please submit individual records and individual QLL lists as soon after the observations as possible. For QLLs that you visit more than once, send in a master QLL list annually. New records will be added to the Montana Bird Distribution database on a regular schedule. This will allow for periodic updates and queries on species or selected geographic areas. It will also greatly facilitate producing the next edition.

We plan development of a computer software program that will permit data entry of field sightings by observers with access to personal computers. This will permit observers to send in their observations via diskette. Use of this method of recordkeeping will significantly reduce data entry time at the central database. We intend to design the program so that observers will be able to access and display their own data. All observers with access to personal computers are encouraged to use this method when it becomes available.

Mail all records to:

Montana Bird Distribution Update
Montana Natural Heritage Program
1515 East Sixth Avenue
Helena, MT 59620

Red-throated Loon

Gavia stellata

QLL 10D; May, 1991; Ft. Peck
n=7

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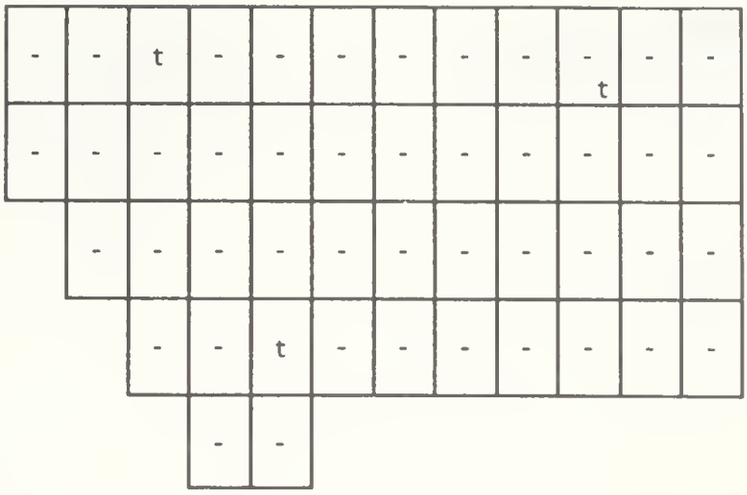

Pacific Loon

Gavia pacifica

(formerly combined with Arctic Loon)
LL 3; Sept. 25, 1976; Lake McDonald
n=2

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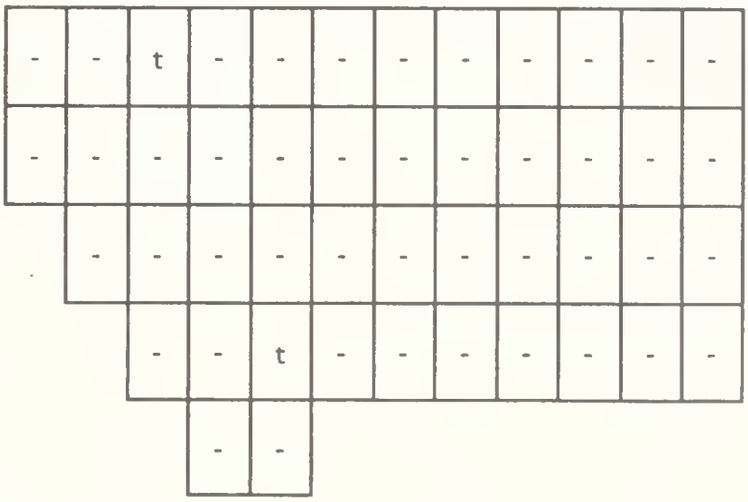

Common Loon

Gavia immer

TES

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WWW------W--
wW----------
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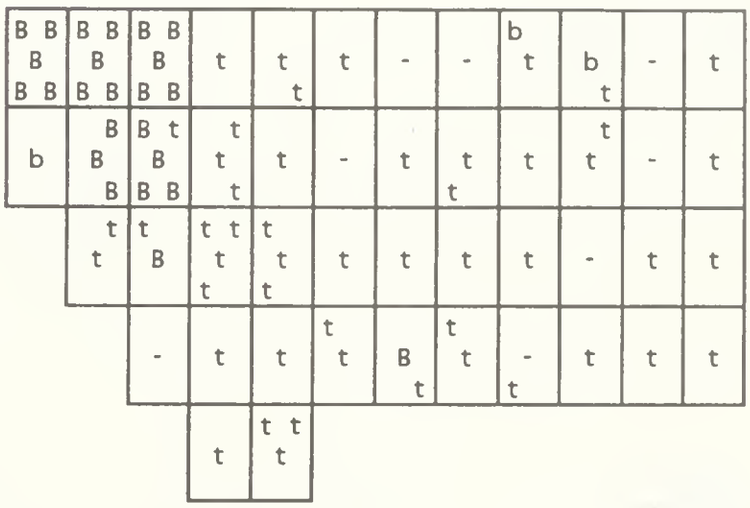
B B B B B B B B B t t t - - b t b - t
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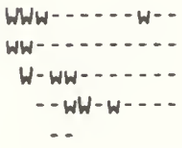
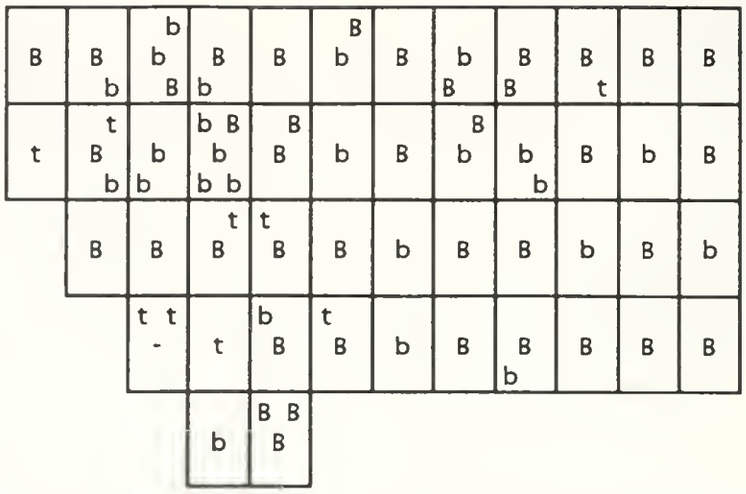
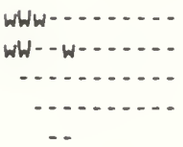
b B B B t t t t t t t t t t - t
B B B t
t t t t t t t t - t t
t t t t t t t t t t

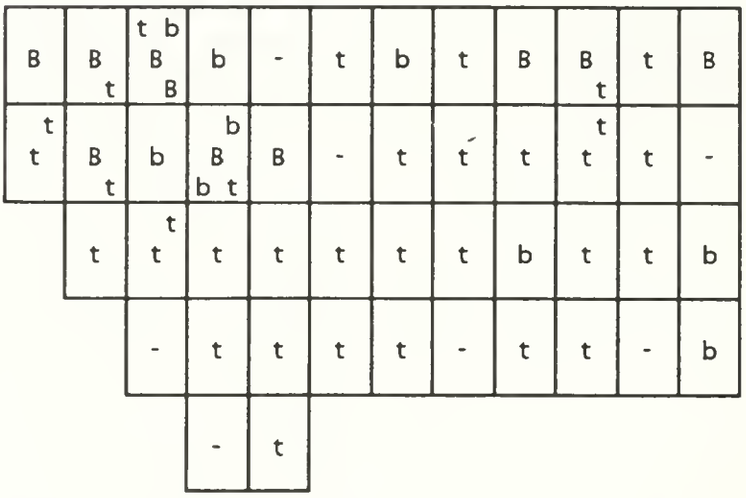
Pied-billed Grebe
Podilymbus podiceps



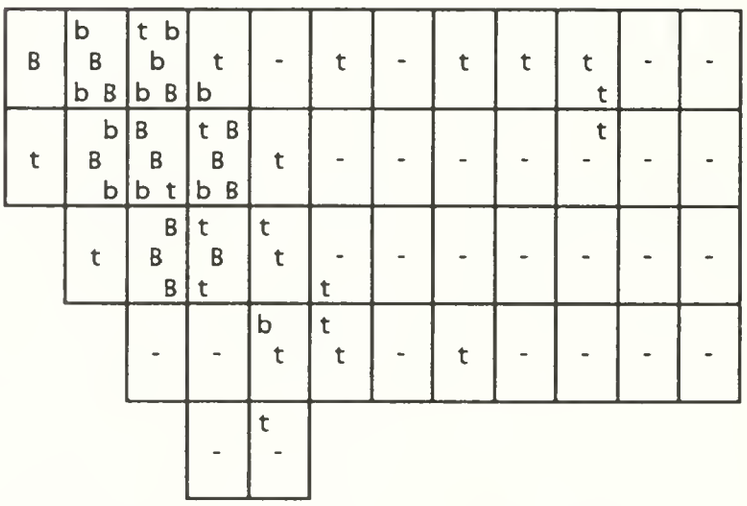


Horned Grebe
Podiceps auritus

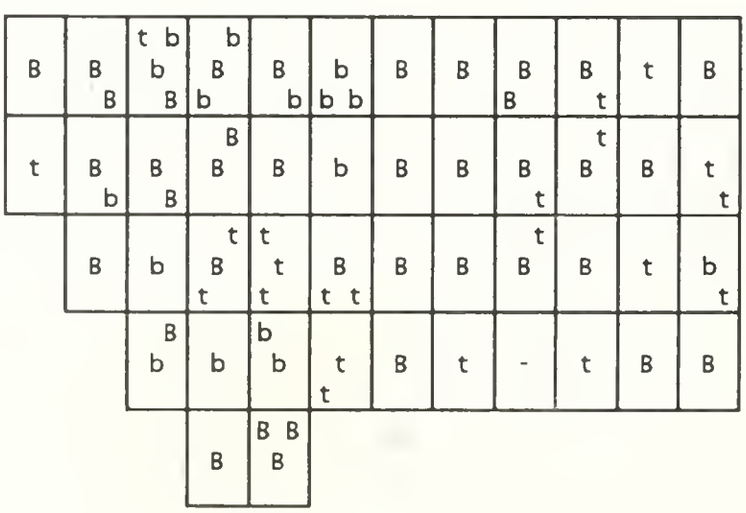




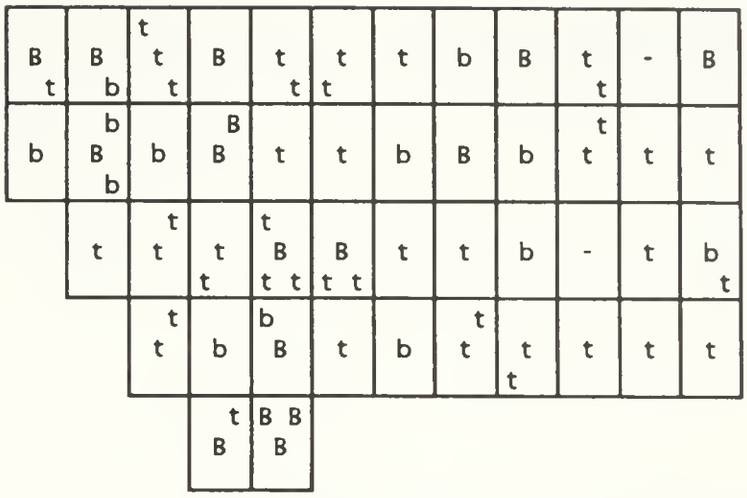
Red-necked Grebe
Podiceps grisegena



Eared Grebe
Podiceps nigricollis



Western Grebe
Aechmophorus occidentalis



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WWW---------
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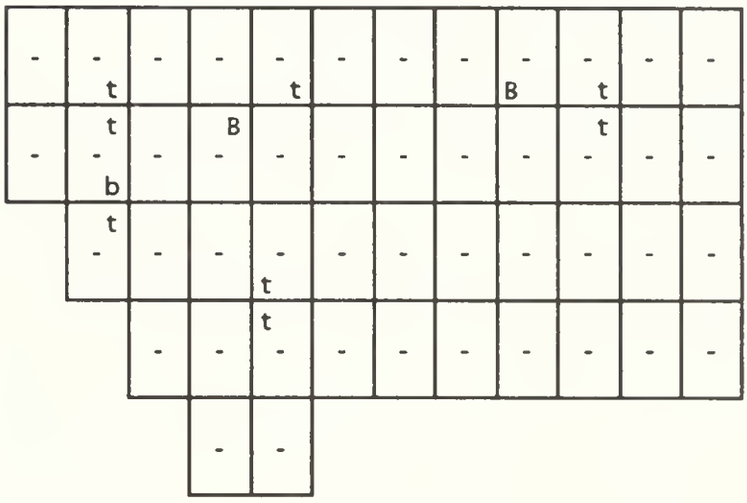
Clark's Grebe
Aechmophorus clarkii
(formerly combined with Western Grebe)
QLL 38A; Aug., 1991; Harrison Lake
n=16



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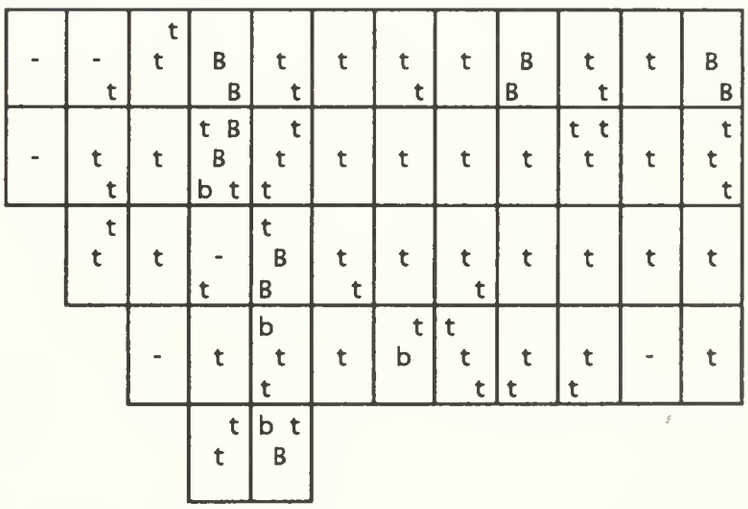
◘ PELECANIFORMES ■ Pelecanidae ----------

American White Pelican
Pelecanus erythrorhynchos
TES



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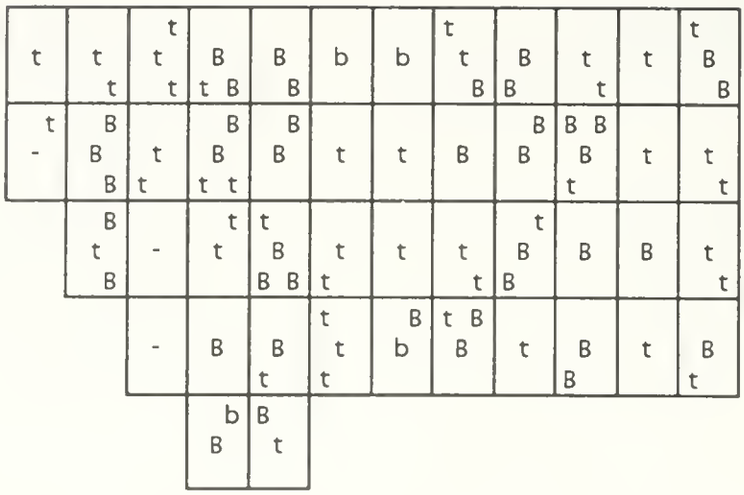
■ Phalacrocoracidae

Double-crested Cormorant
Phalacrocorax auritus
SI



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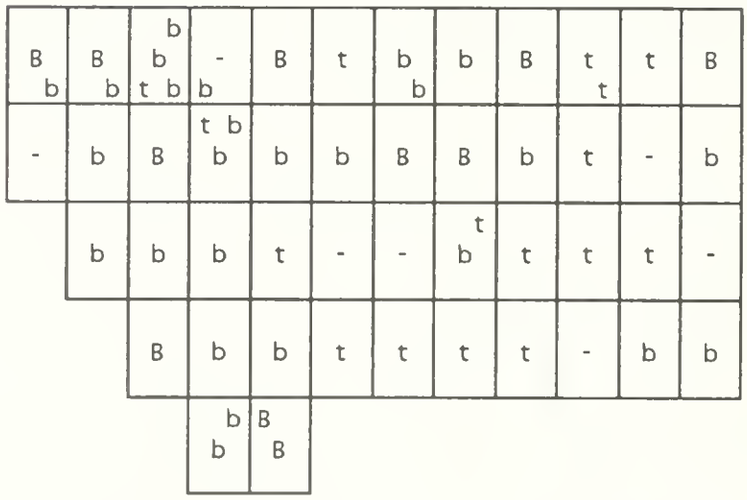
◘ CICONIIFORMES ■ Ardeidae

American Bittern
Botaurus lentiginosus



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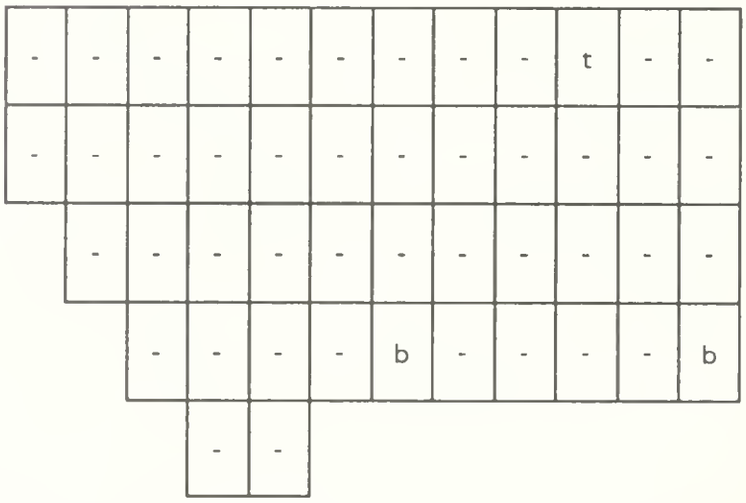
Least Bittern
Ixobrychus exilis
LL 10; June 3, 1976; Ft. Peck
n=3



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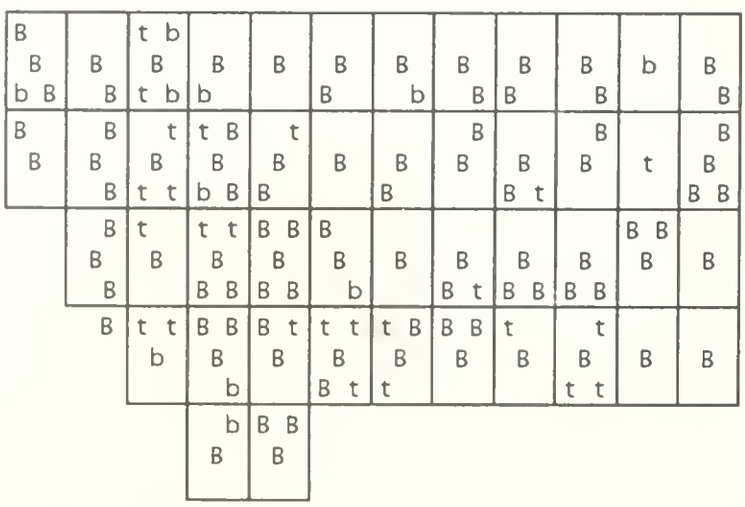
Great Blue Heron
Ardea herodias
SI

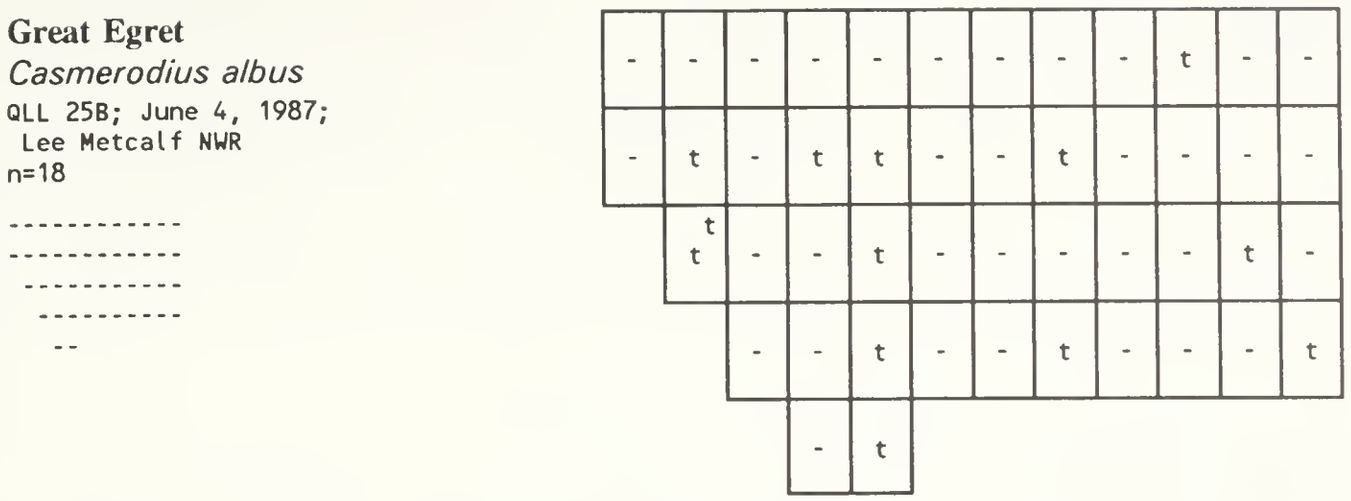


WW--W-------
WWW---W-----
 WWWW----W--
  -WWW-WWW--
   -W

Great Egret

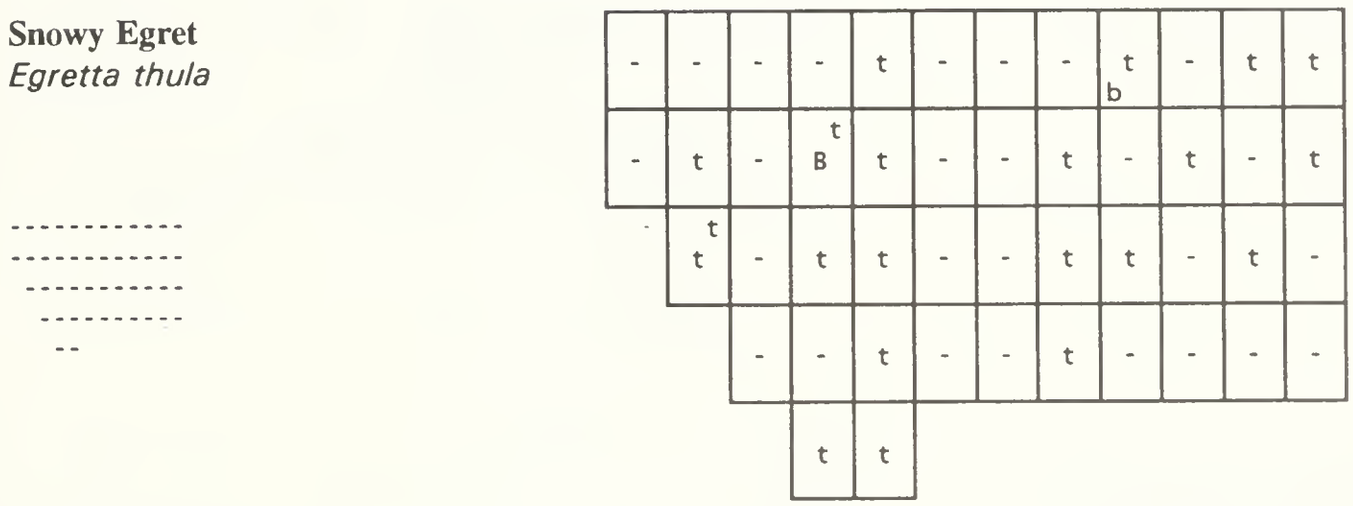
Casmerodius albus

QLL 25B; June 4, 1987;
Lee Metcalf NWR
n=18



Snowy Egret

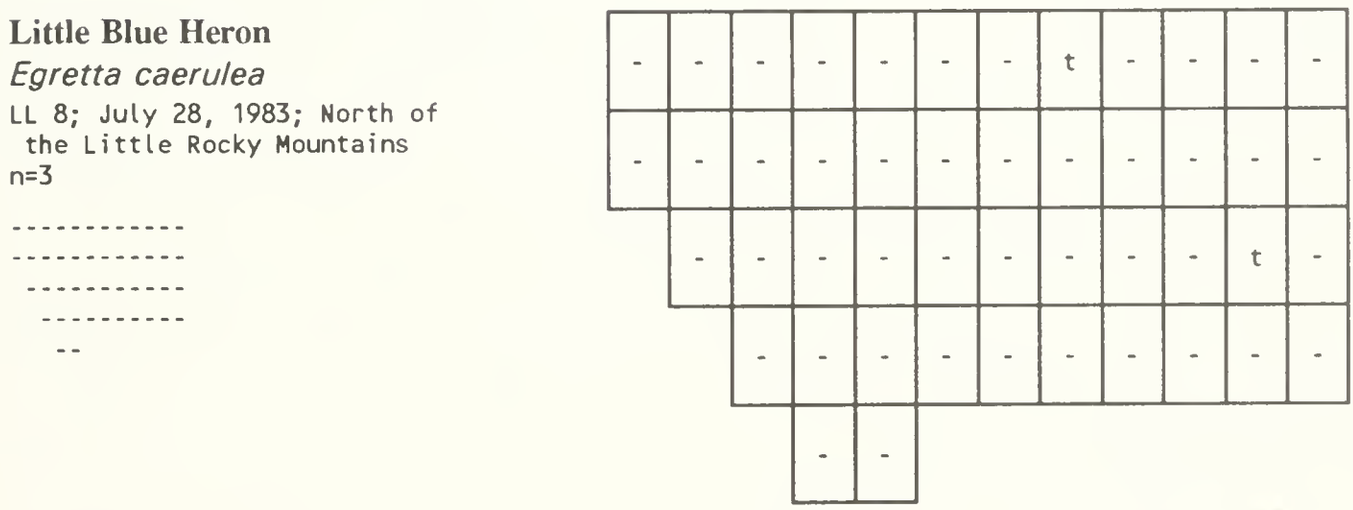
Egretta thula



Little Blue Heron

Egretta caerulea

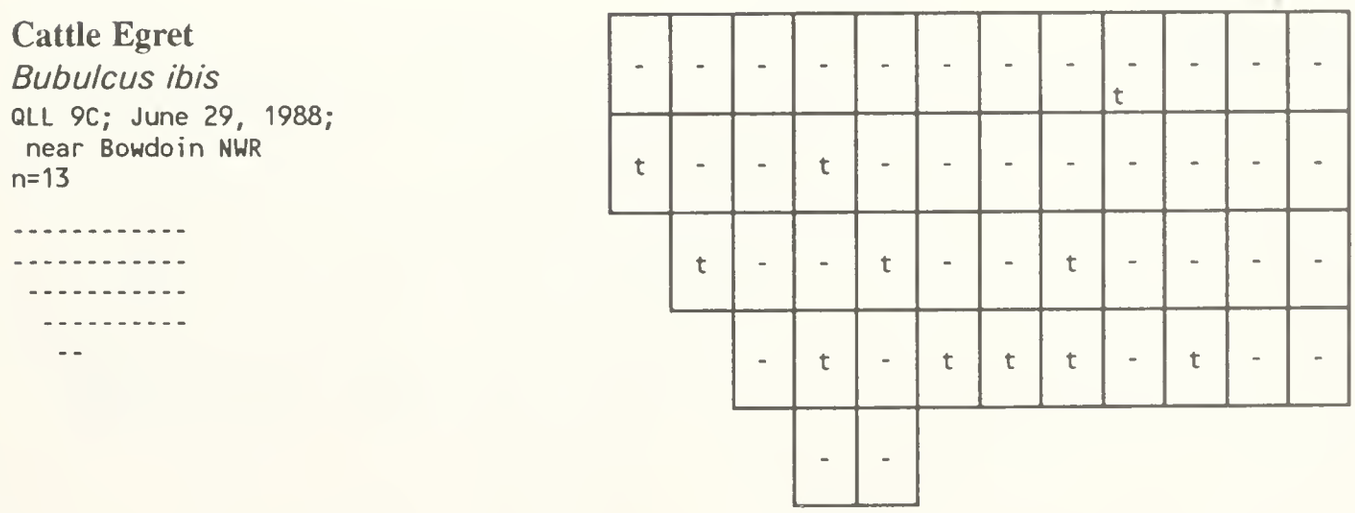
LL 8; July 28, 1983; North of
the Little Rocky Mountains
n=3



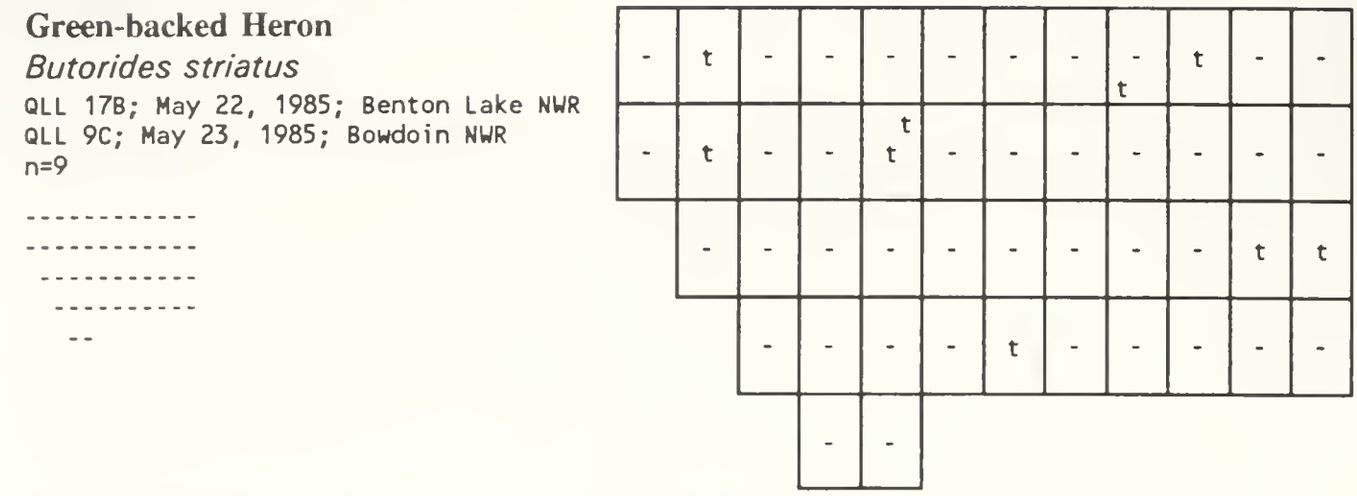
Cattle Egret

Bubulcus ibis

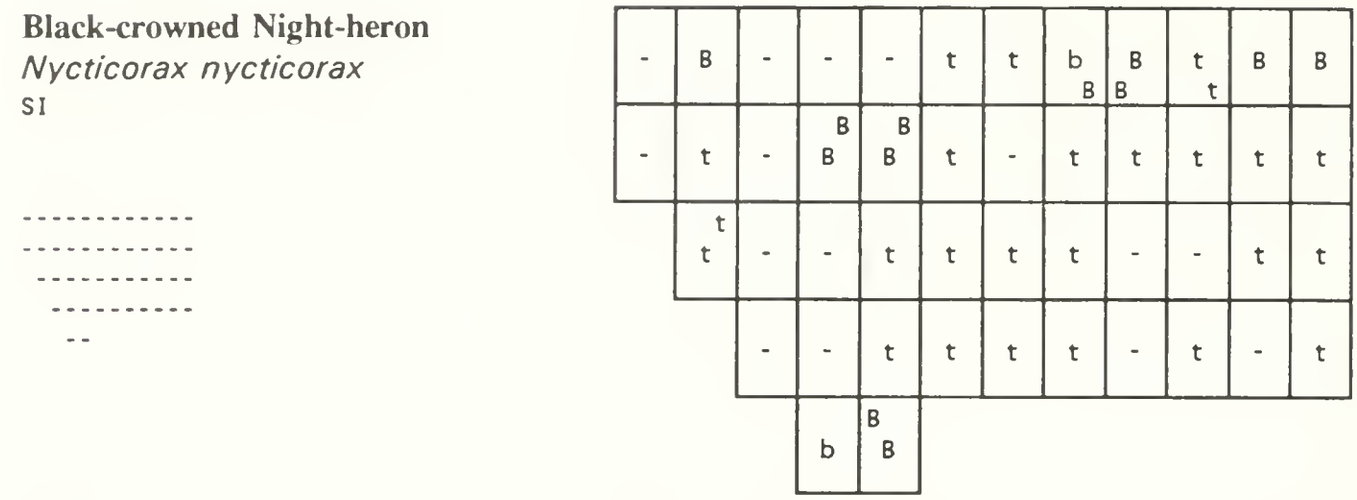
QLL 9C; June 29, 1988;
near Bowdoin NWR
n=13



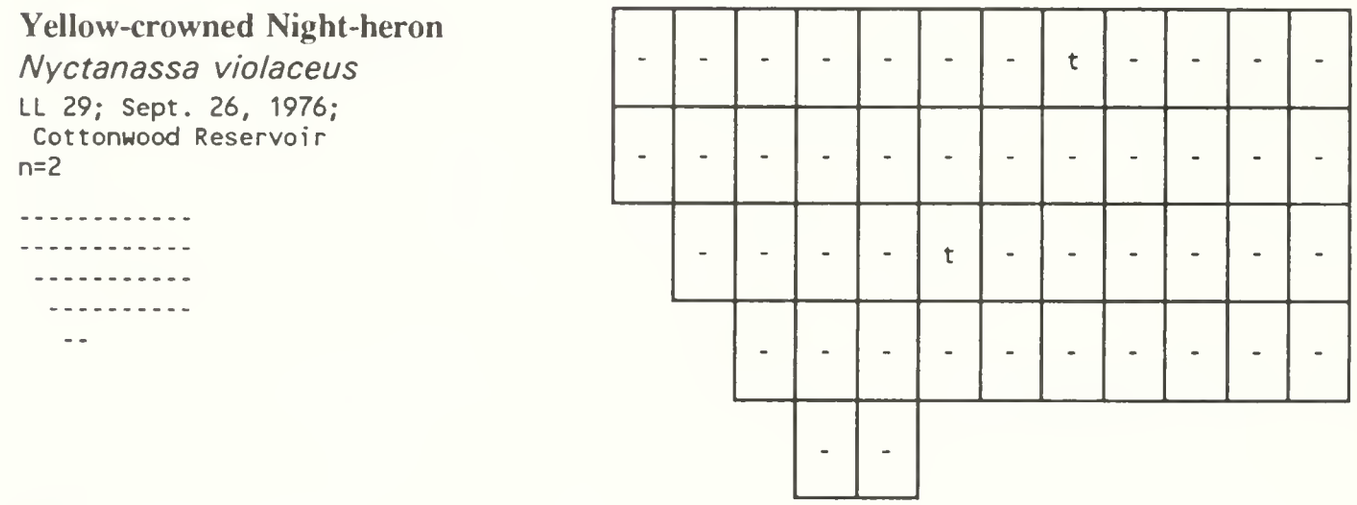
Green-backed Heron
Butorides striatus
QLL 17B; May 22, 1985; Benton Lake NWR
QLL 9C; May 23, 1985; Bowdoin NWR
n=9



Black-crowned Night-heron
Nycticorax nycticorax
SI

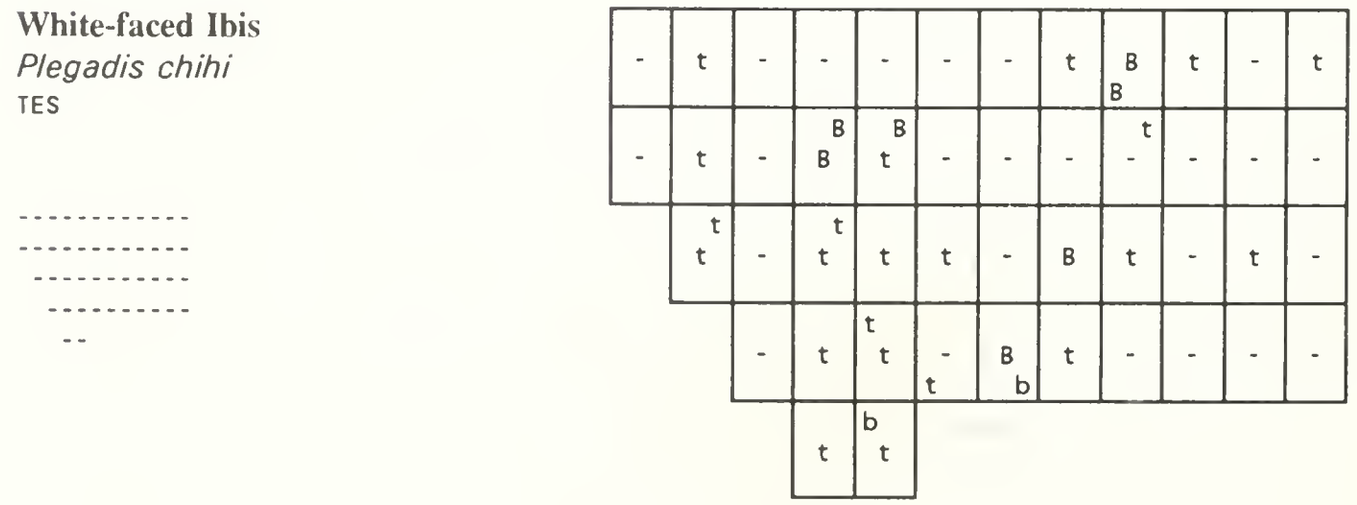


Yellow-crowned Night-heron
Nyctanassa violaceus
LL 29; Sept. 26, 1976;
Cottonwood Reservoir
n=2



■ Threskiornithidae

White-faced Ibis
Plegadis chihi
TES



Wood Stork
Mycteria americana
LL 32; May 4, 1918; Custer
n=2

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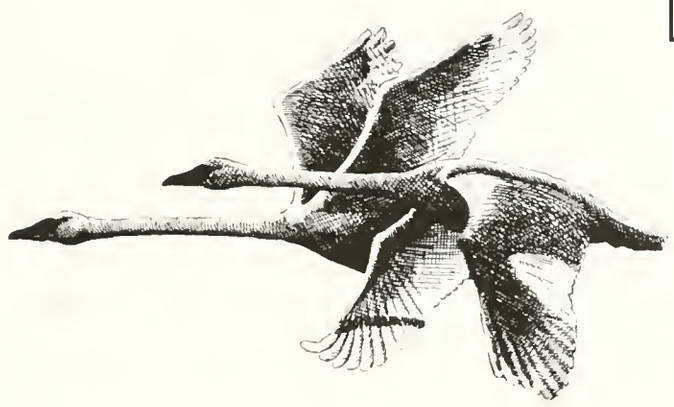

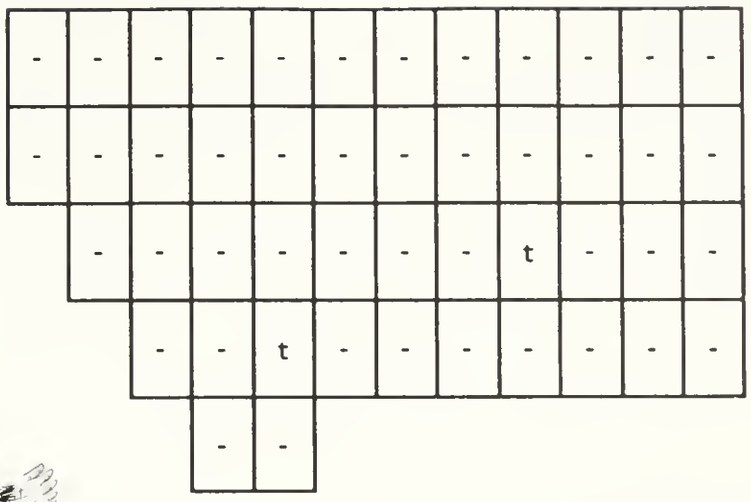

■ ANSERIFORMES ■ Anatidae ----------

Tundra Swan
Cygnus columbianus

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-W--W-------
-Wwww-------
 WW-w-------
  --WW-w----
   -W
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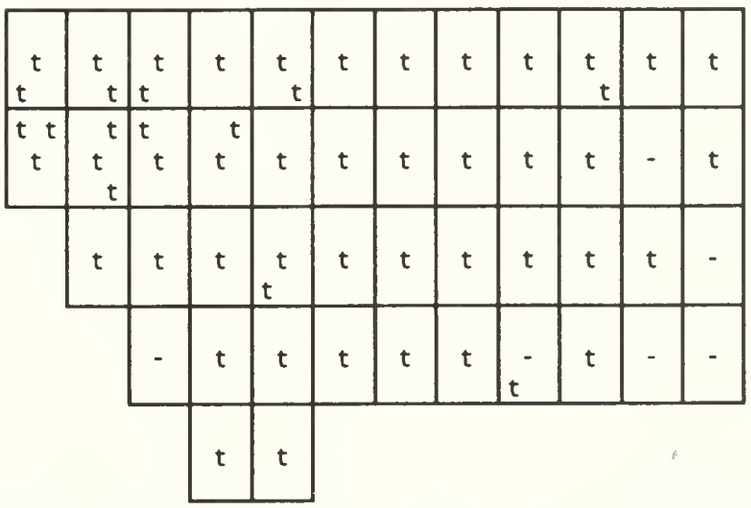

Trumpeter Swan
Cygnus buccinator
TES

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-W----------
-W--W-------
 W----------
  --WW---W--
   -W
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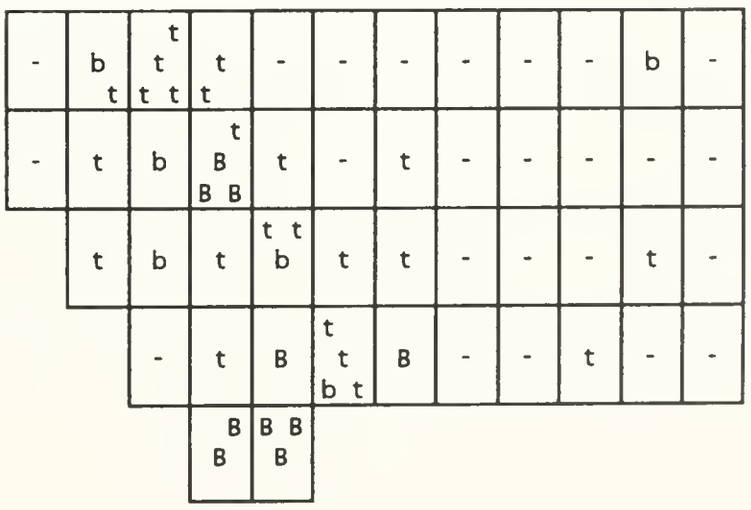
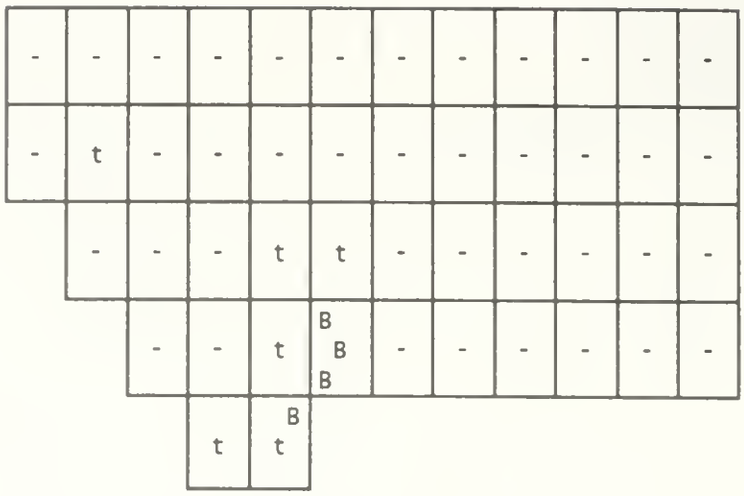
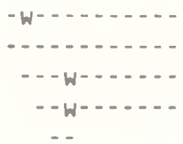
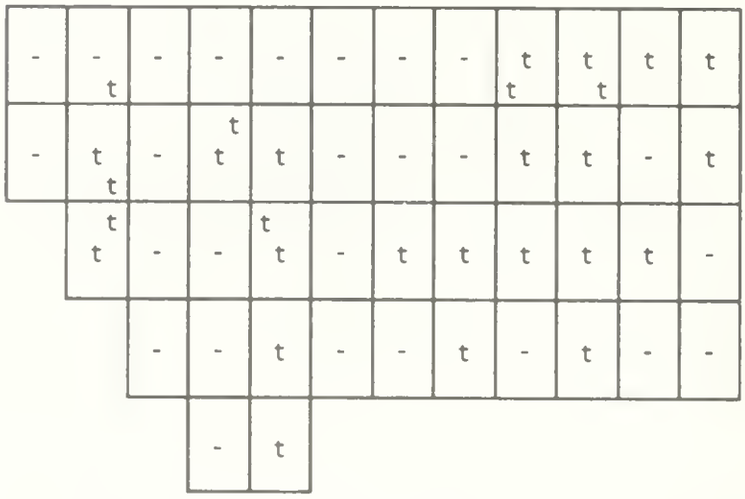


Mute Swan
Cygnus olor
SI (introduced)

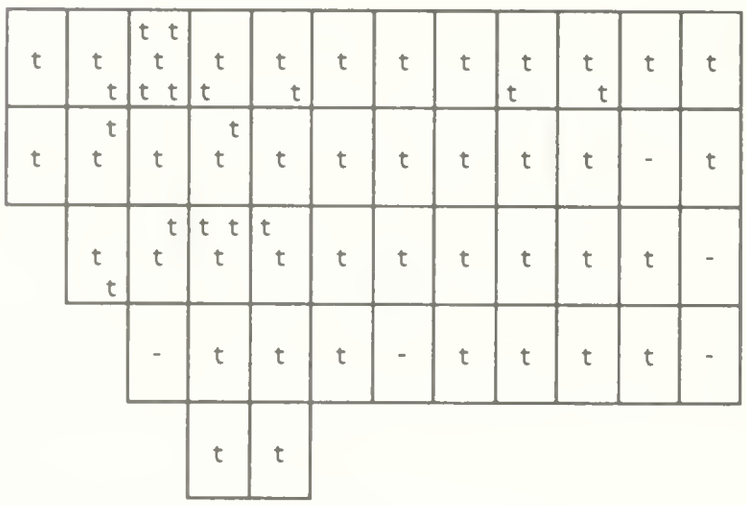


Greater White-fronted Goose
Anser albifrons

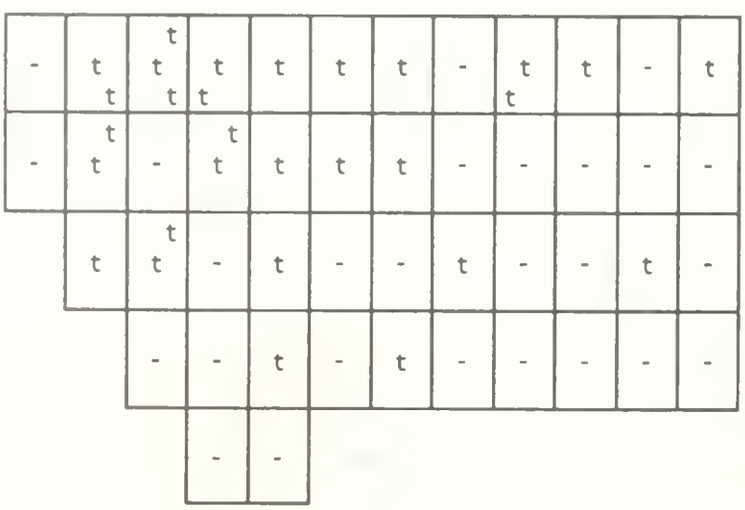




Snow Goose
Chen caerulescens



Ross' Goose
Chen rossii



Brant

Branta bernicla

LL 33; No location
n=7

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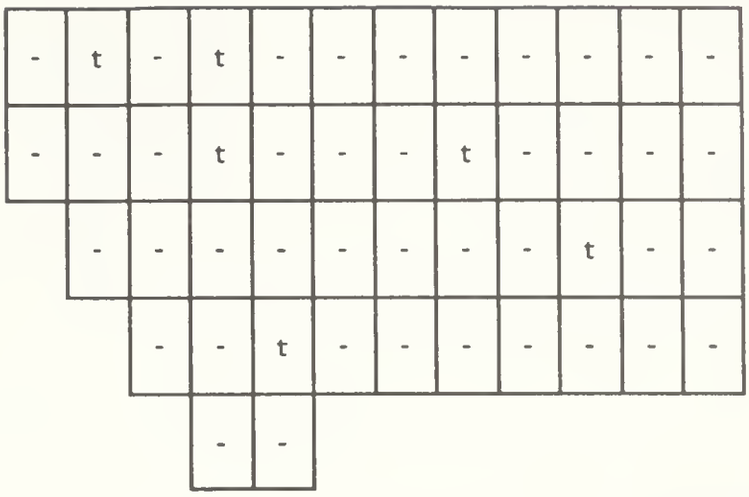

Canada Goose

Branta canadensis

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WWW-WWW-WW-W
WWWWWW-WWW-W
 WWWWW--WWW-
  -WWWWWWWW-
   WW
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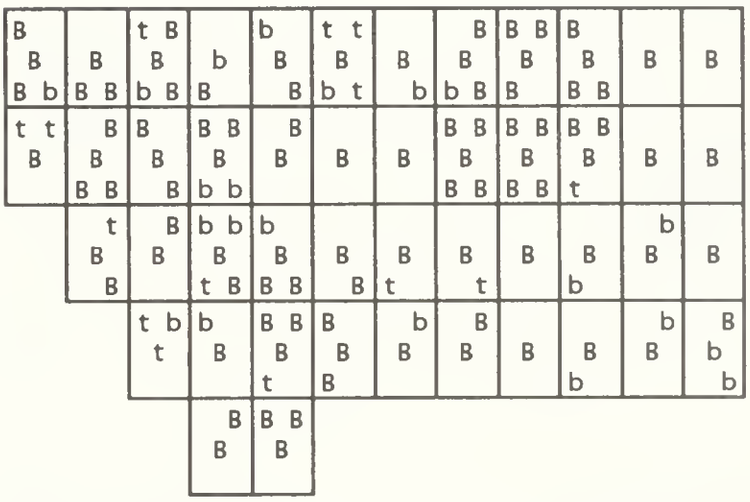

Wood Duck

Aix sponsa

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WW------W---
-W----------
 W-WW-------
  --W--W----
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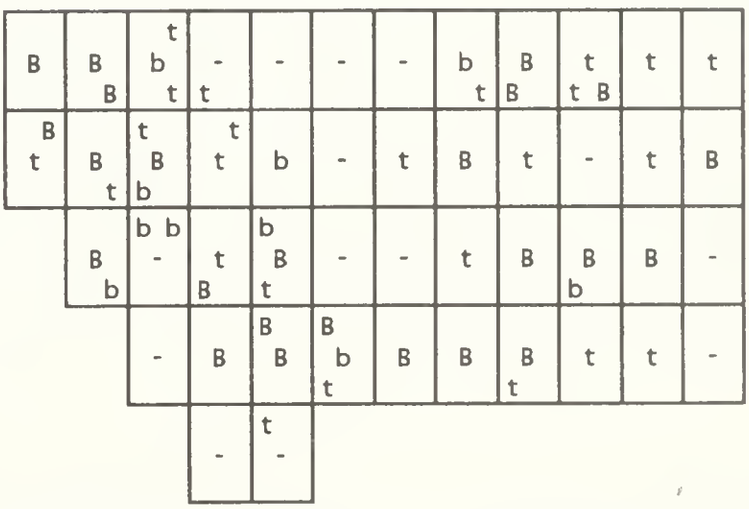

Green-winged Teal

Anas crecca

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WW------W---
WW-WWWW-----
 WWWW-------
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   WW
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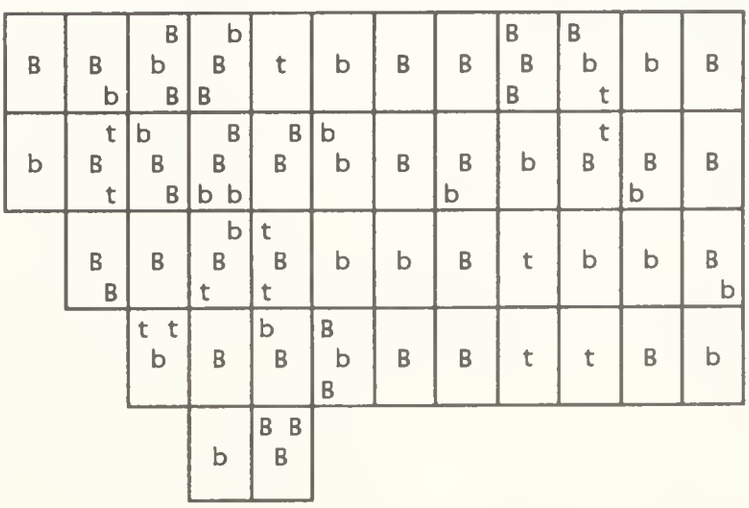
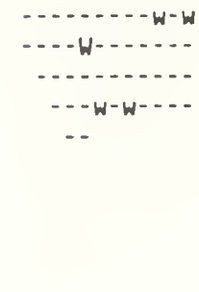
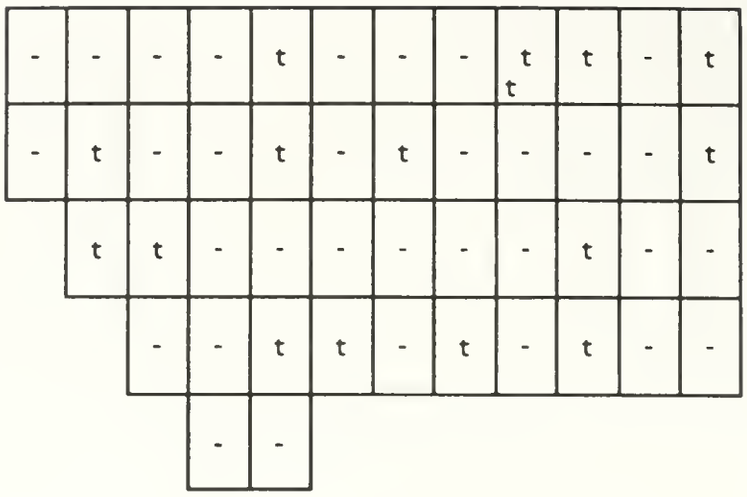
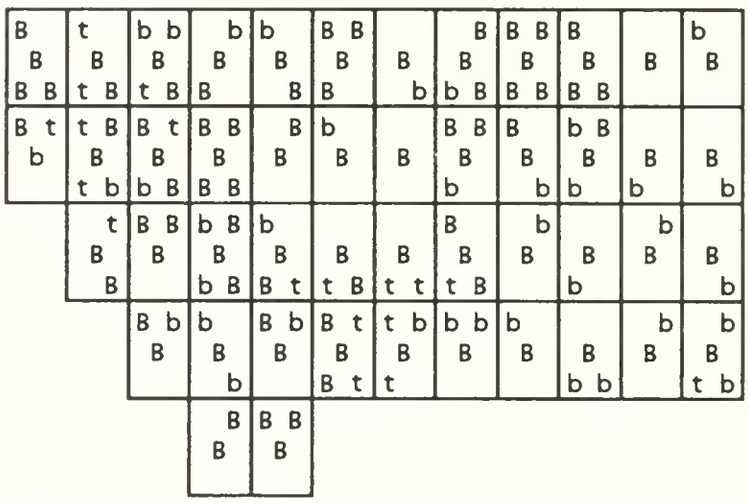


American Black Duck
Anas rubripes

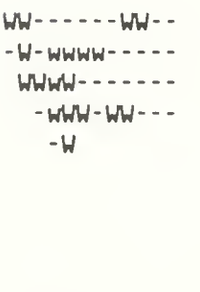


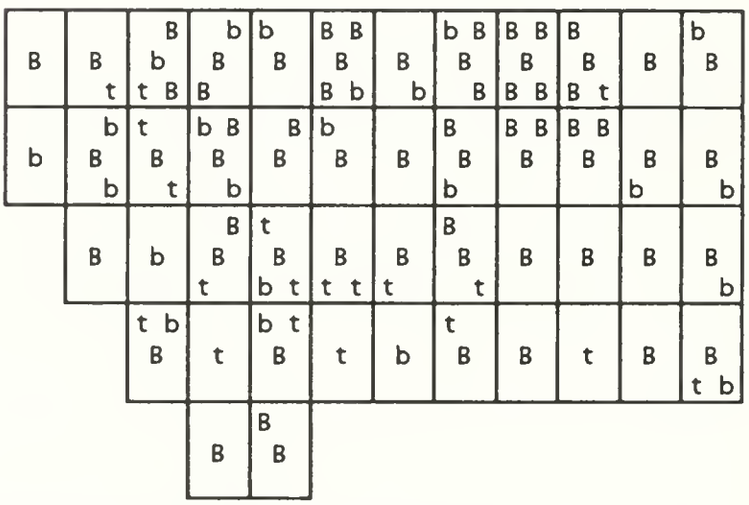


Mallard
Anas platyrhynchos

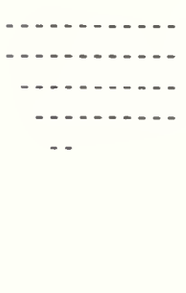


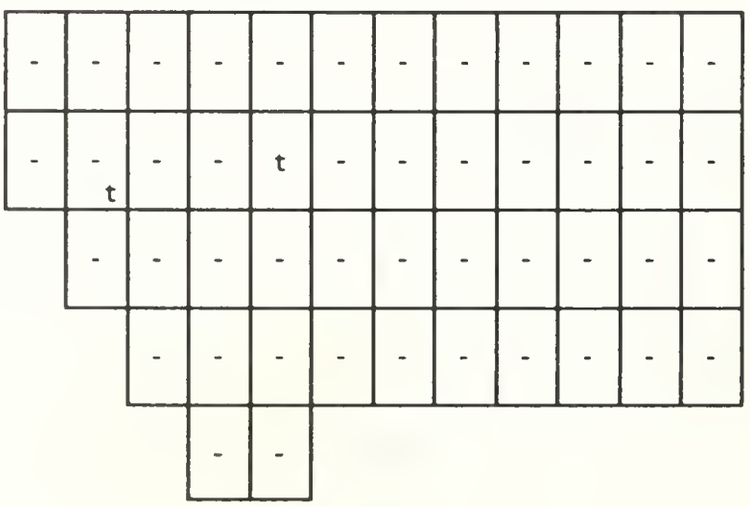
Northern Pintail
Anas acuta





Garganey
Anas querquedula
QLL 14D; April 4, 1991; Charlo
n=2





Blue-winged Teal
Anas discors

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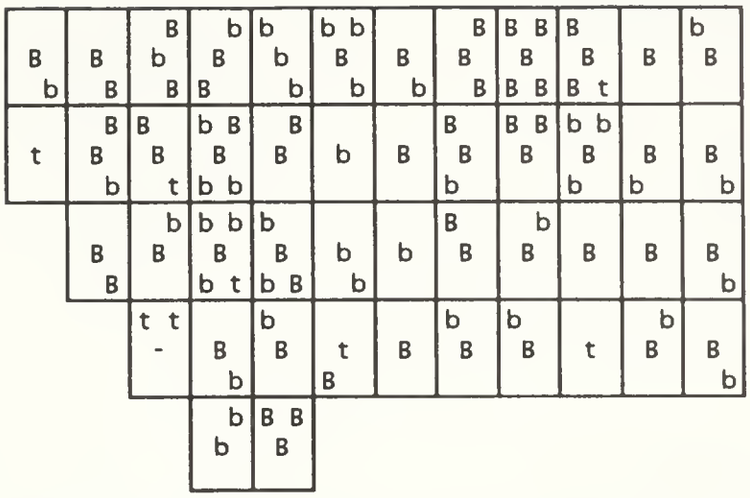

Cinnamon Teal
Anas cyanoptera

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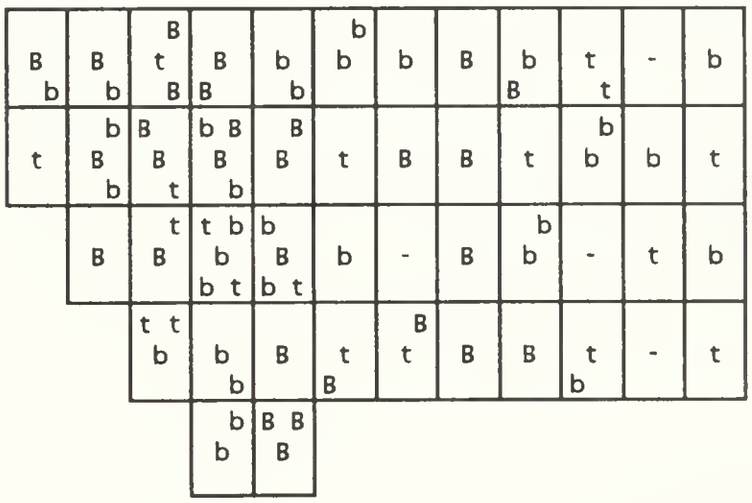

Northern Shoveler
Anas clypeata

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    -w
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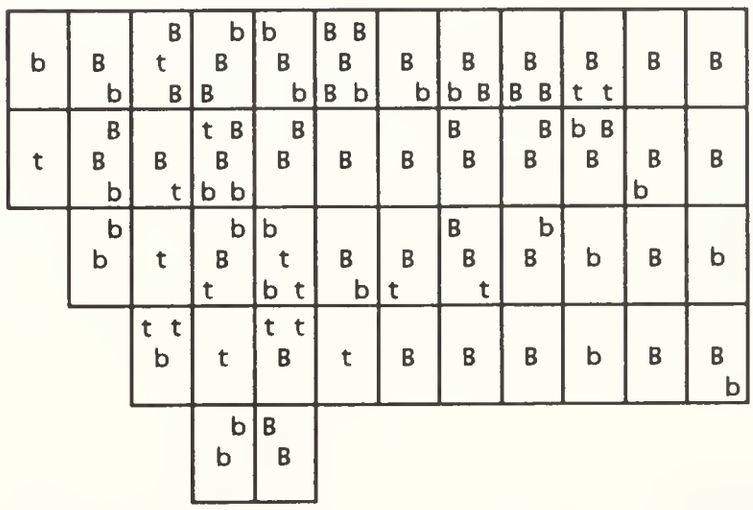

Gadwall
Anas strepera

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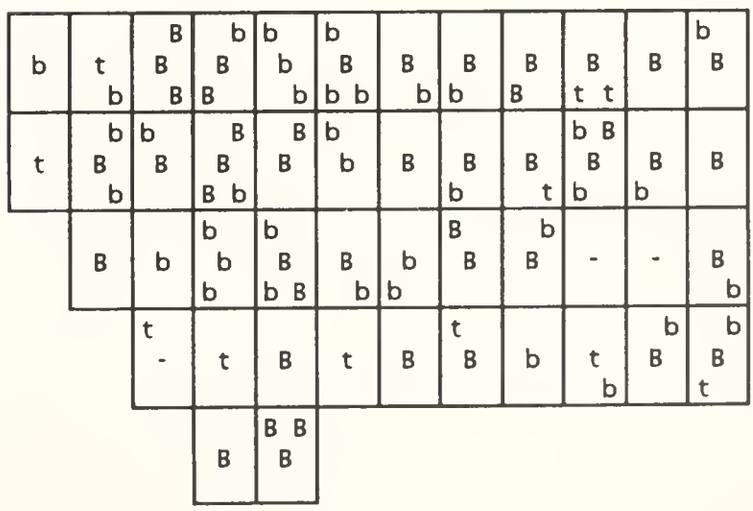
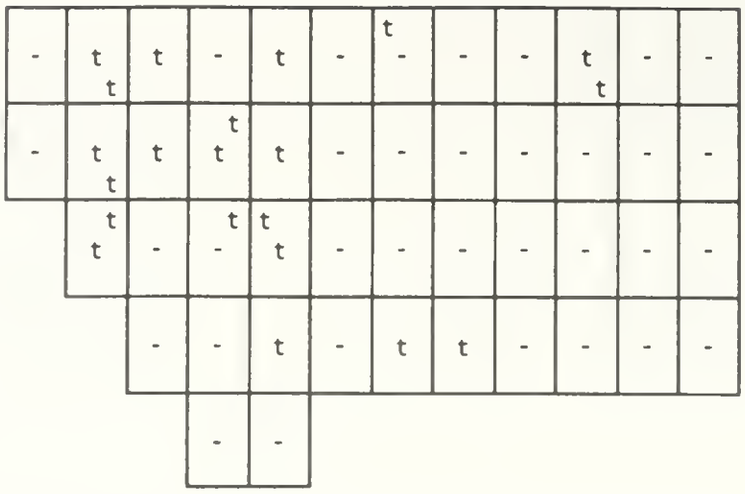
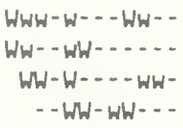
ww------ww--
ww--w-w-----
 w--W-------
  --ww-ww---
    -w
```

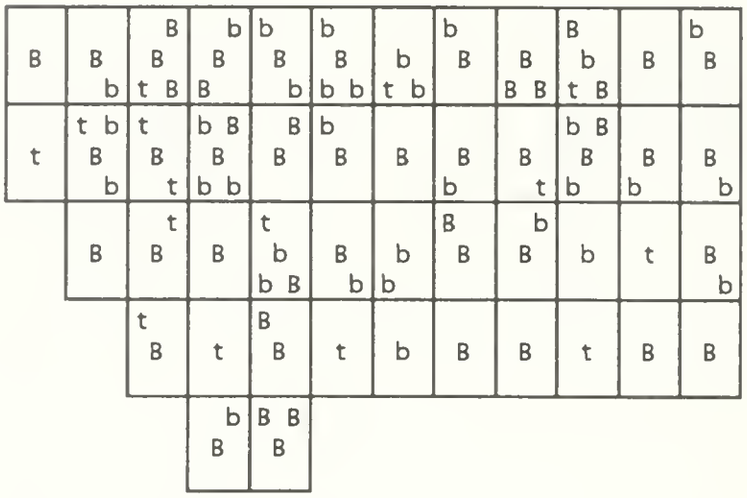


Eurasian Wigeon
Anas penelope

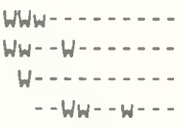


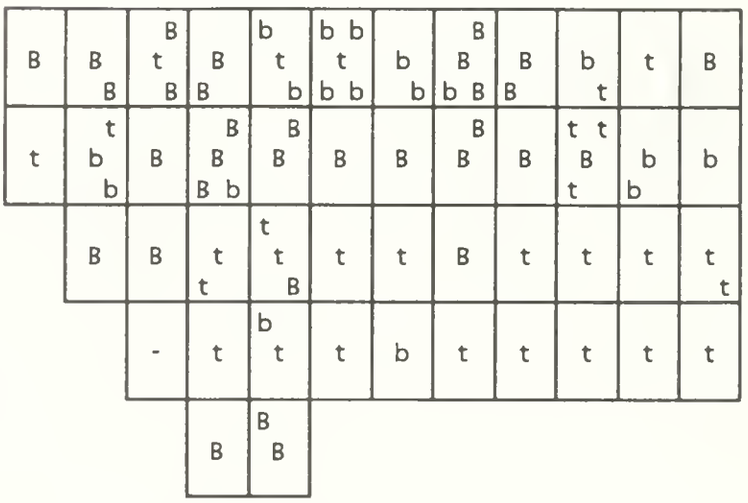
American Wigeon
Anas americana



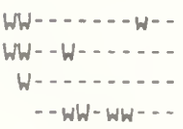


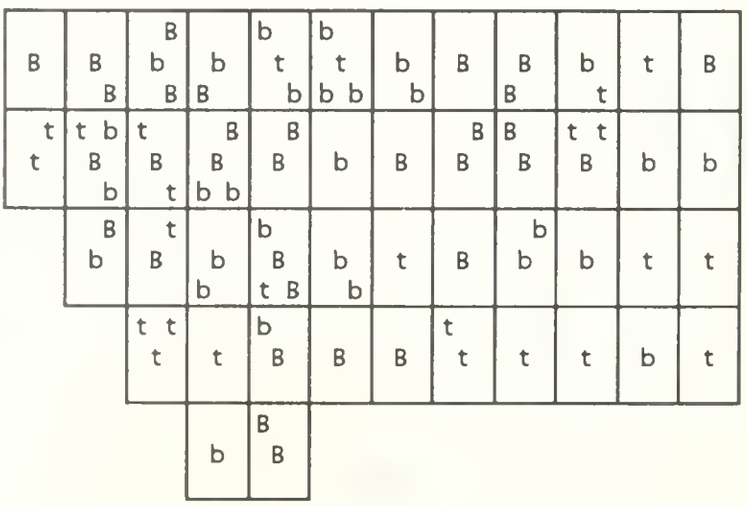
Canvasback
Aythya valisineria





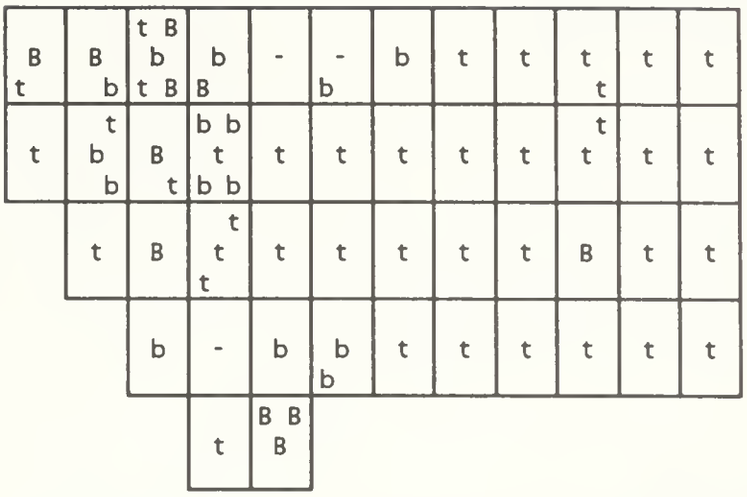
Redhead
Aythya americana





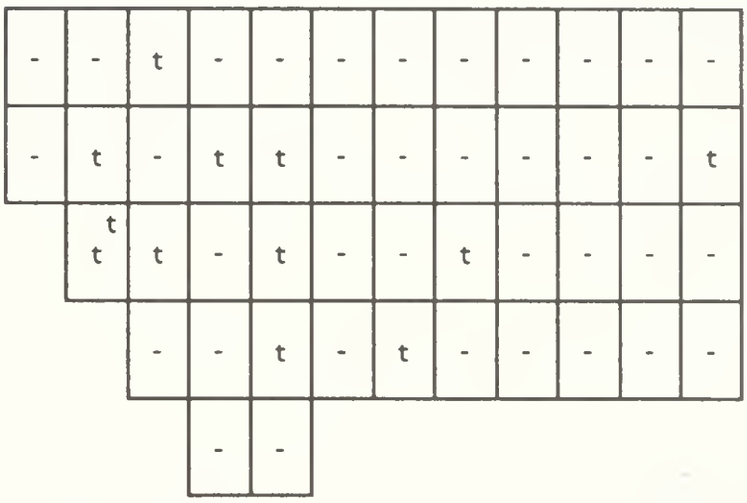
Ring-necked Duck
Aythya collaris

```
Www---------
Ww--w-------
 W--w-------
  --w-------
   -w
```



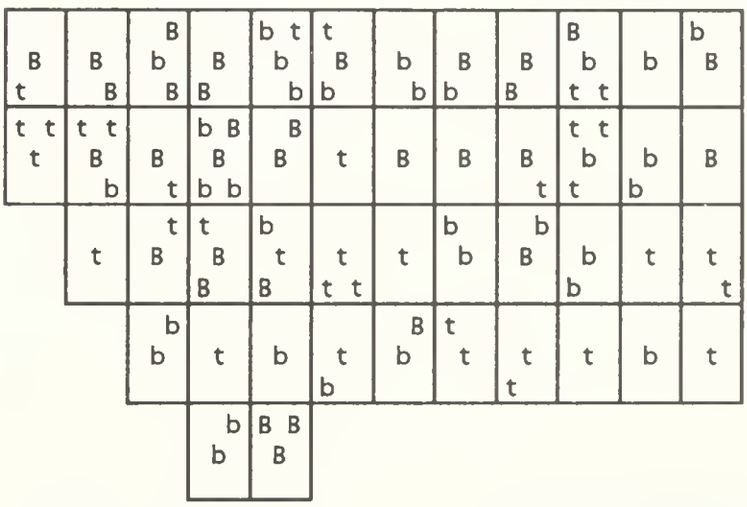
Greater Scaup
Aythya marila

```
--w---------
----w-------
 w--w-------
  --w-------
   --
```



Lesser Scaup
Aythya affinis

```
Ww-------w--
ww--W-------
 W-Ww-------
  --WW-ww---
   -w
```



Harlequin Duck
Histrionicus histrionicus
TES

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 -W----------
  ----------
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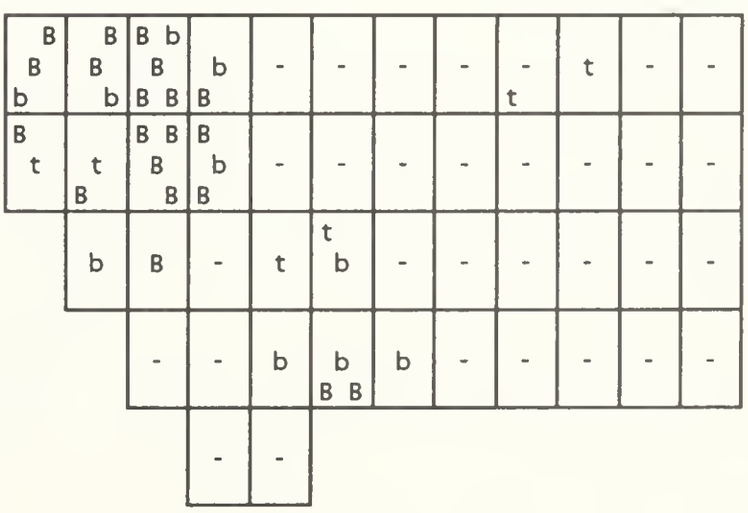
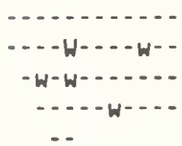
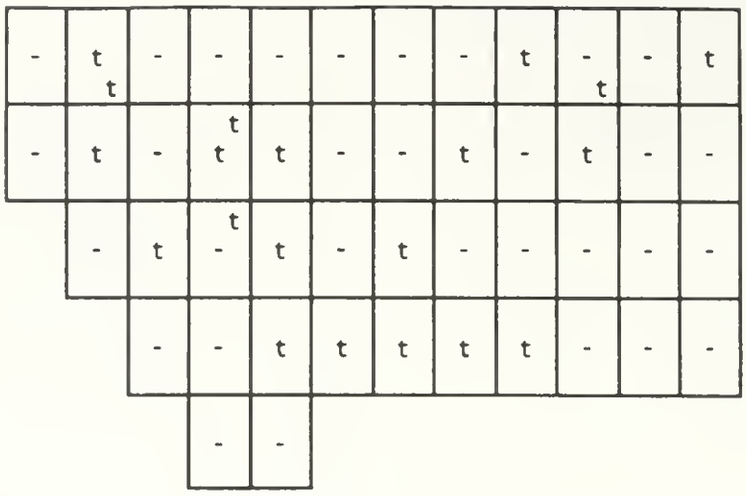
```

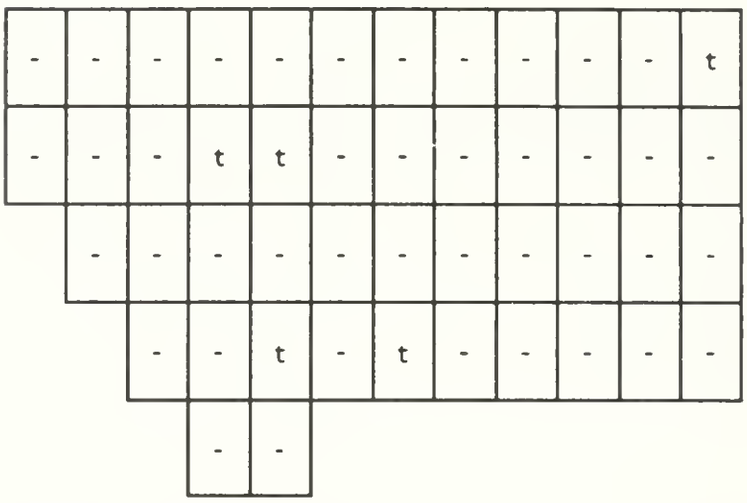


Oldsquaw
Clangula hyemalis

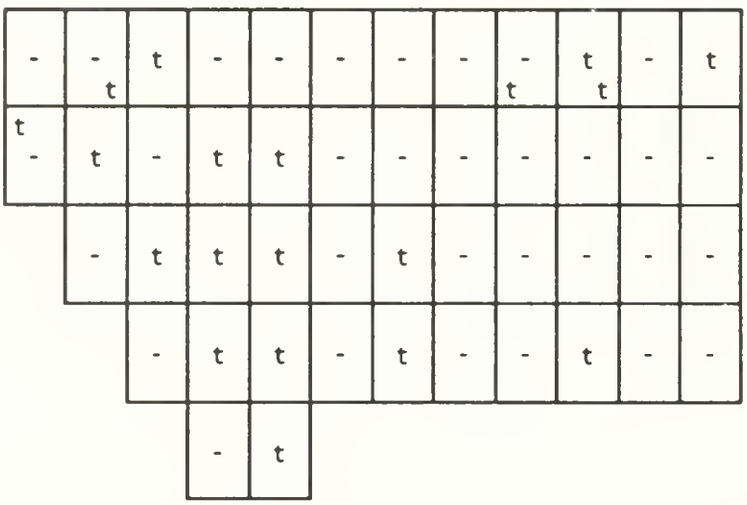




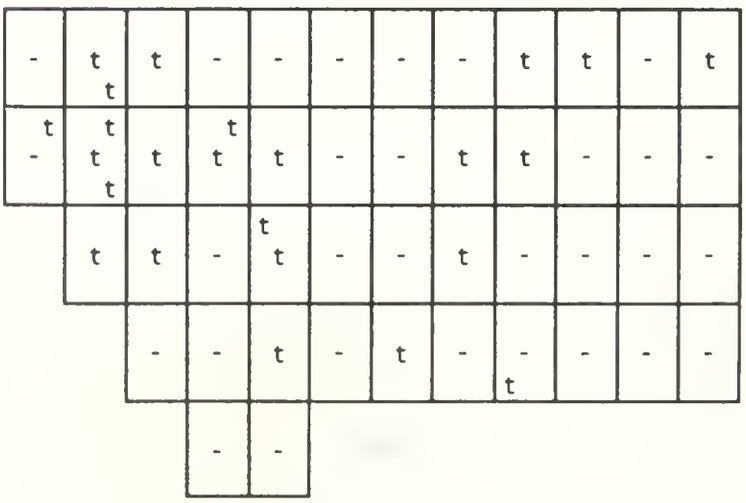
Black Scoter
Melanitta nigra
LL 17; Nov. 2 1979; Benton Lake
n=4



Surf Scoter
Melanitta perspicillata

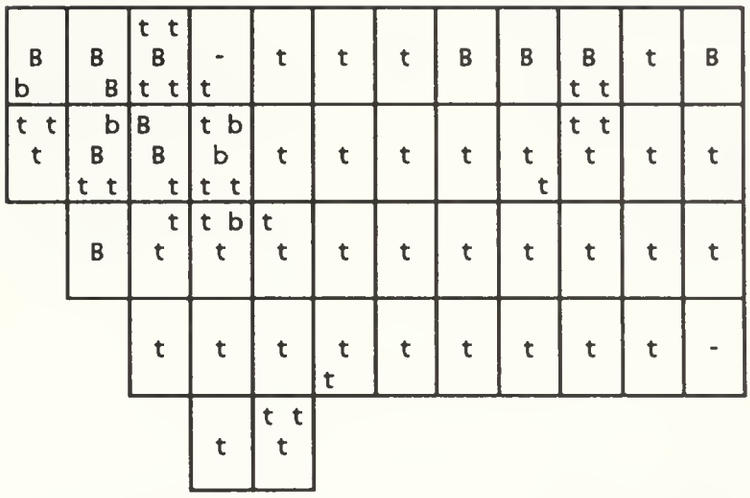


White-winged Scoter
Melanitta fusca



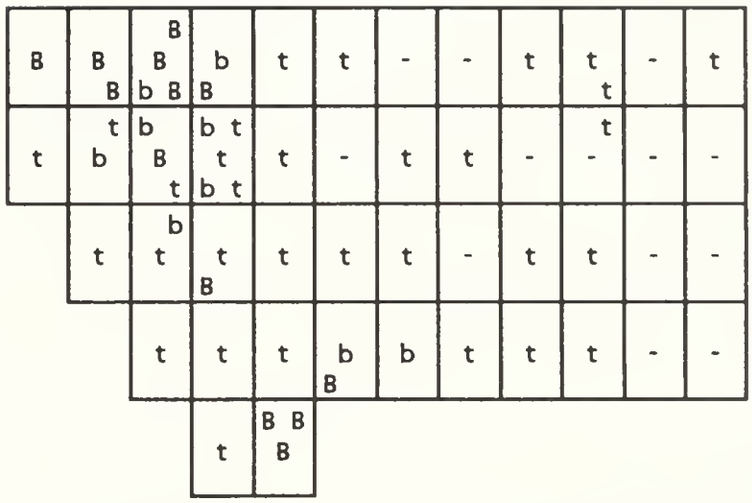
Common Goldeneye
Bucephala clangula

```
WWW-WWWWW--
WWWWWW-WW-W
 WWWW---WWW
  -WWWWWW--
   WW
```



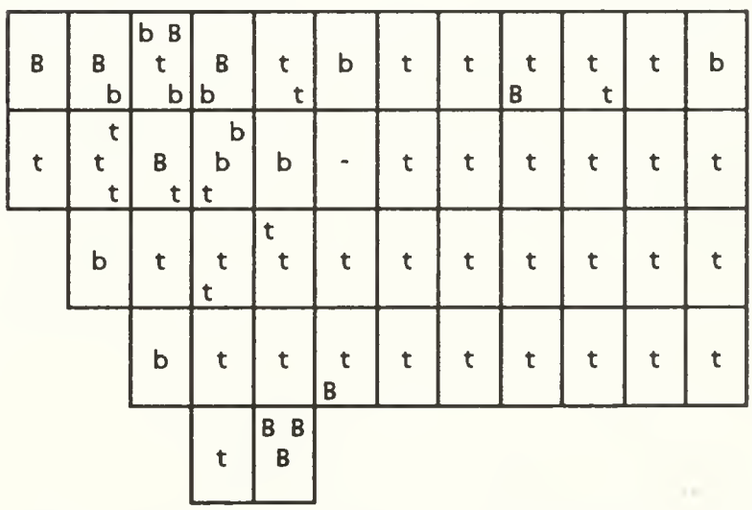
Barrow's Goldeneye
Bucephala islandica

```
WWW-W---WW--
-W--W-W-----
 WW-W-------
  --WW-WWW--
   WW
```



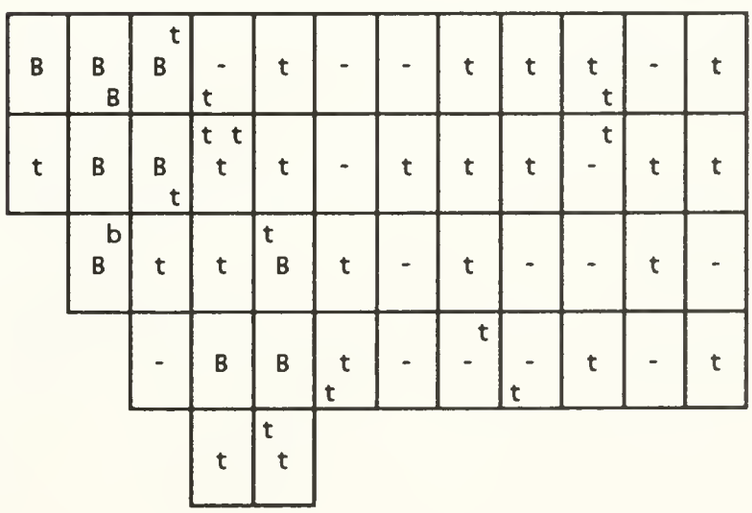
Bufflehead
Bucephala albeola

```
WWW------W--
WW--W-W-----
 W--W-------
  --WW-W----
   WW
```

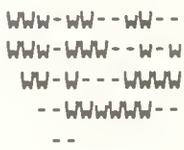


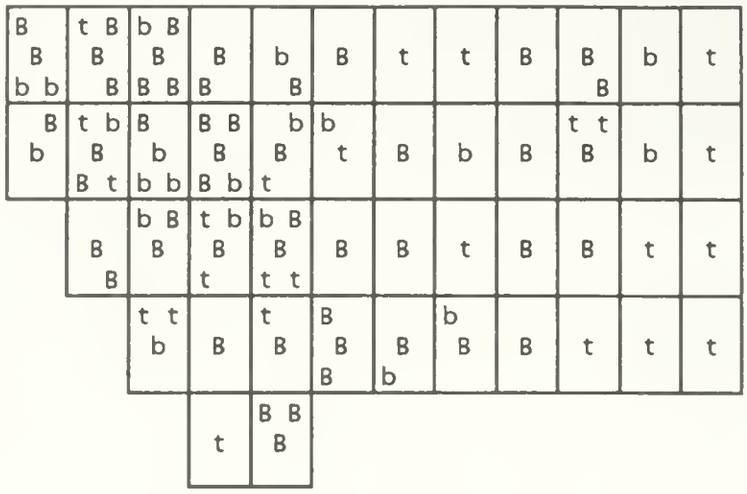
Hooded Merganser
Lophodytes cucullatus

```
WWW-----W---
WW--W-W-----
 WW-W-------
  --WW-W----
   -W
```

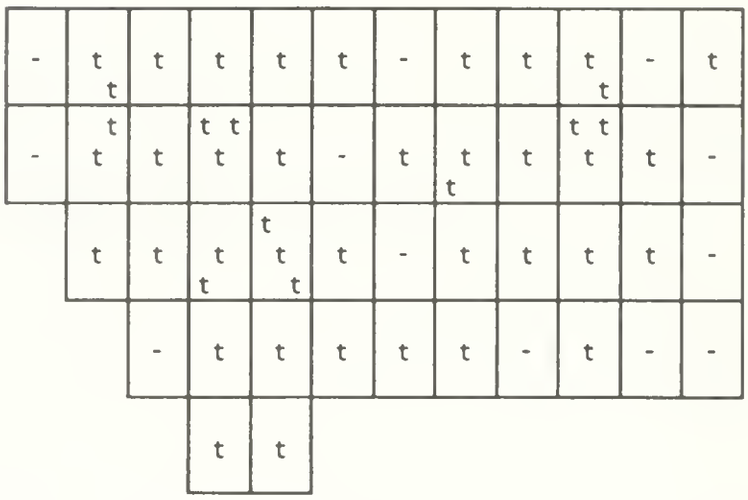


Common Merganser
Mergus merganser

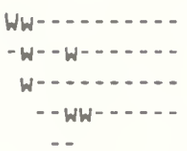


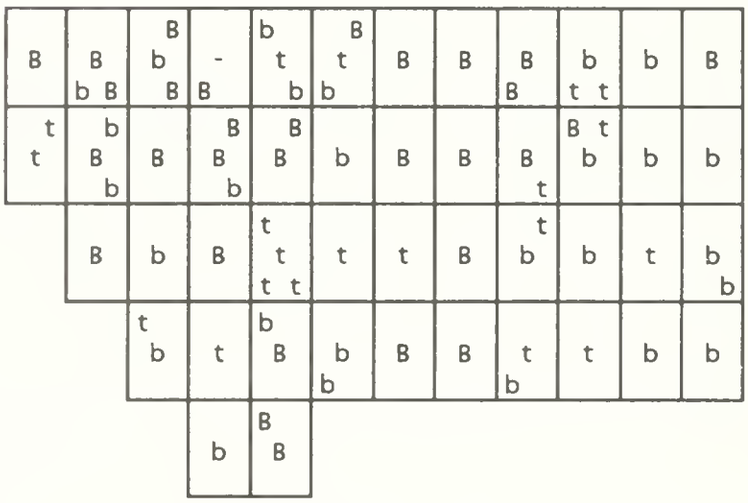


Red-breasted Merganser
Mergus serrator



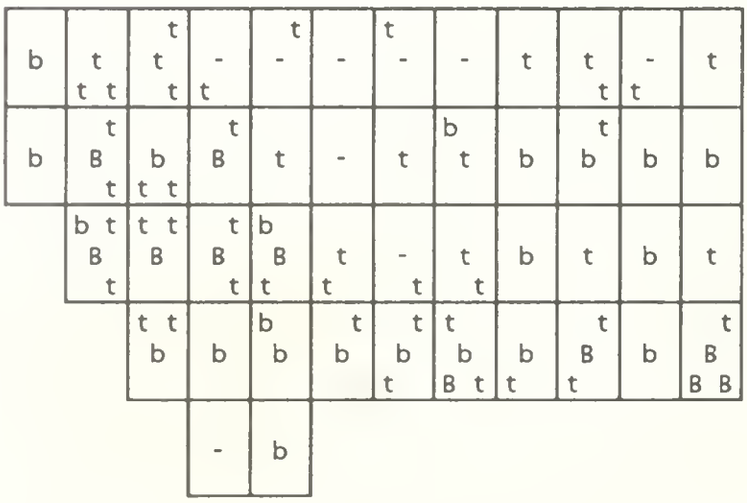
Ruddy Duck
Oxyura jamaicensis





FALCONIFORMES ■ Cathartidae

Turkey Vulture
Cathartes aura



Osprey
Pandion haliaetus

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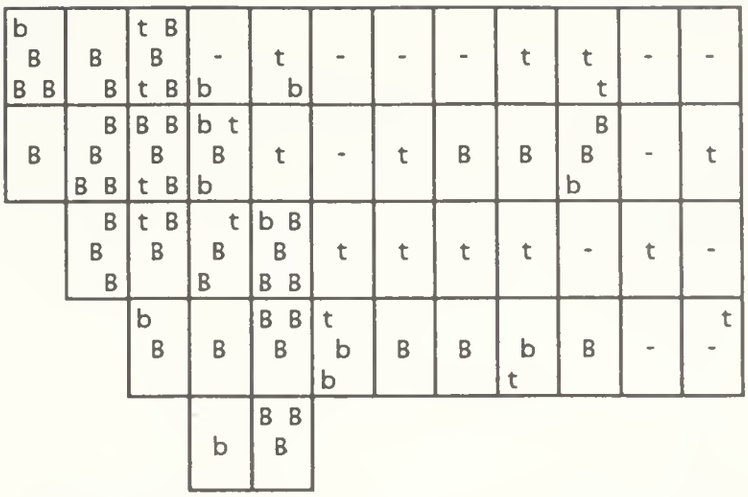
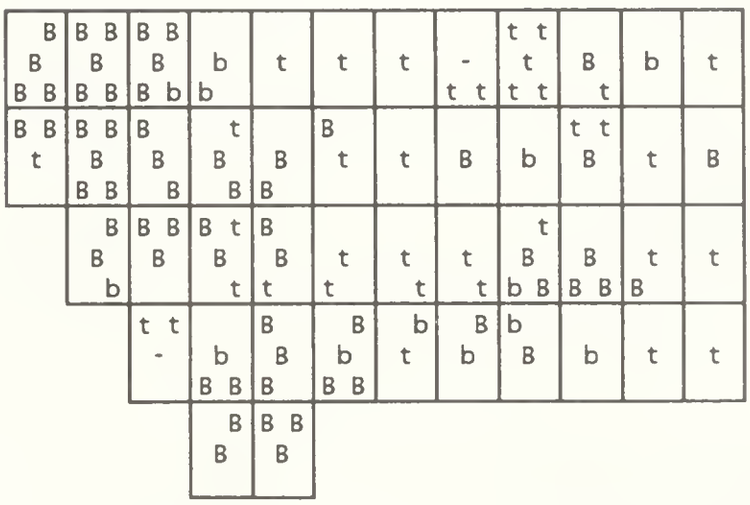


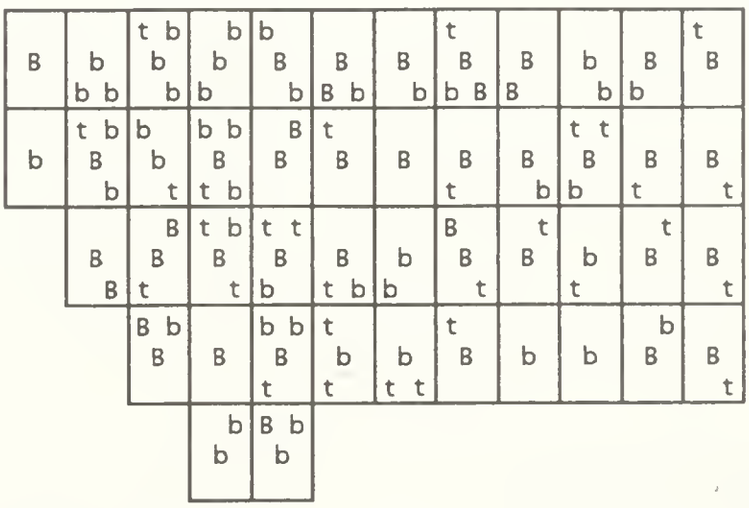
Bald Eagle
Haliaeetus leucocephalus
TES

```
WWW-WW--WWW-
WWWWWWWWW-W
 WWWWWWWWWW
  WWWWWWWWW
   WW
```



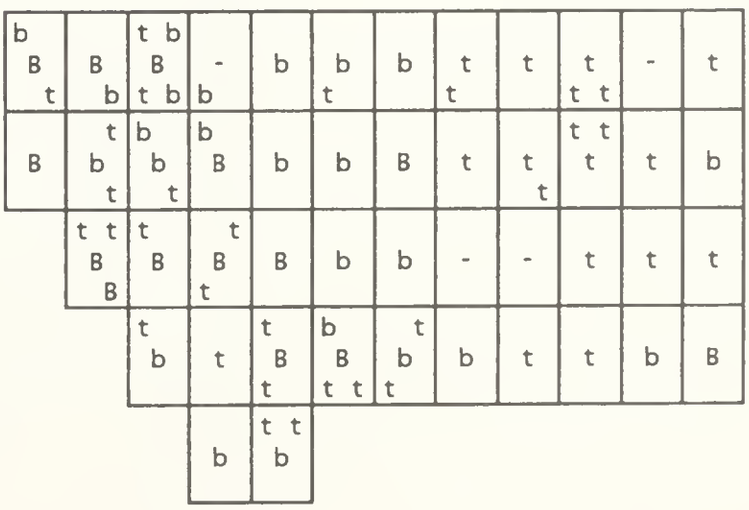
Northern Harrier
Circus cyaneus

```
WW--WWW-WW-W
WW-WW-WWW--W
 W-WWWWWWWW
  -WWWWWW-W
   WW
```



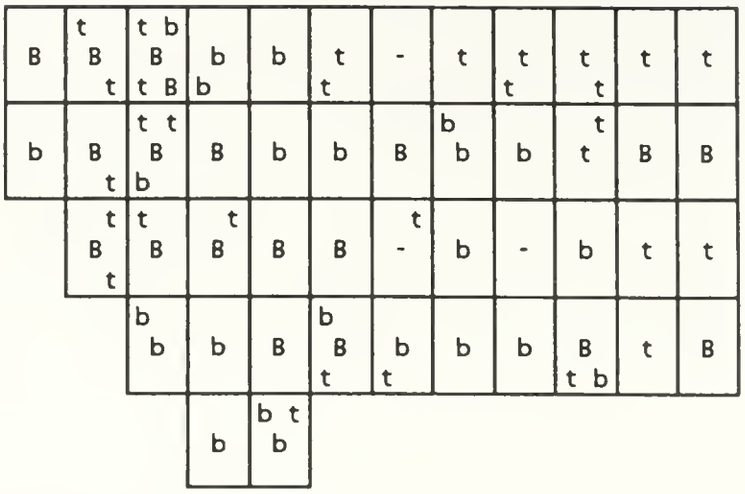
Sharp-shinned Hawk
Accipiter striatus

```
WWWW-------
WWW-W-W-----
 WWW----WW-
  -WWW-W-W--
   -W
```



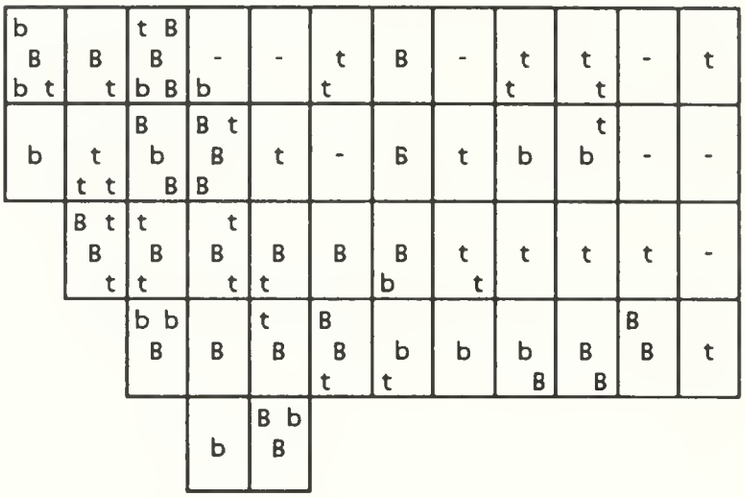
Cooper's Hawk
Accipiter cooperii

```
WWW---------
Www---w-----
 wwww----w-w
  --Ww-W-w--
    w-
```



Northern Goshawk
Accipiter gentilis
TES

```
WWW----WWw--
-WWWW-ww----
 WwWWW-w-www
  -WWWww-W--
    -W
```



Red-shouldered Hawk
Buteo lineatus
LL 3; Sept. 13, 1965;
West Glacier
n=2

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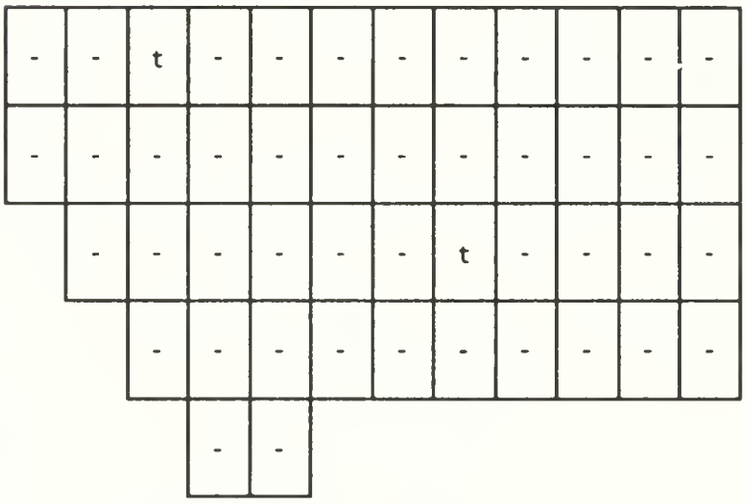

Broad-winged Hawk
Buteo platypterus

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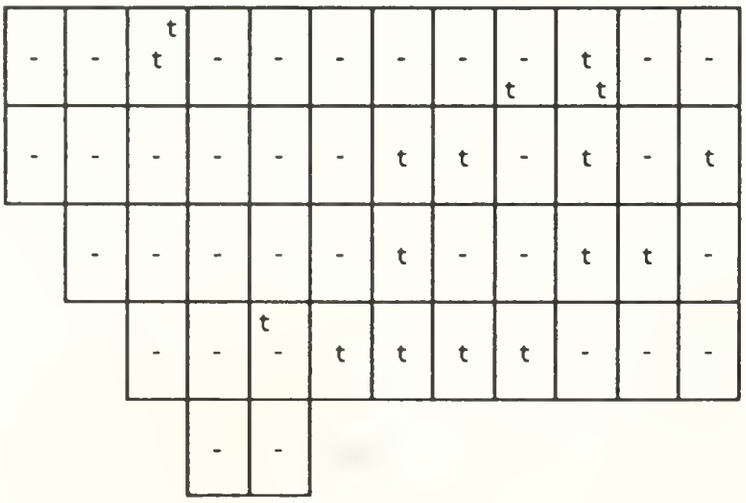
```



Swainson's Hawk
Buteo swainsoni

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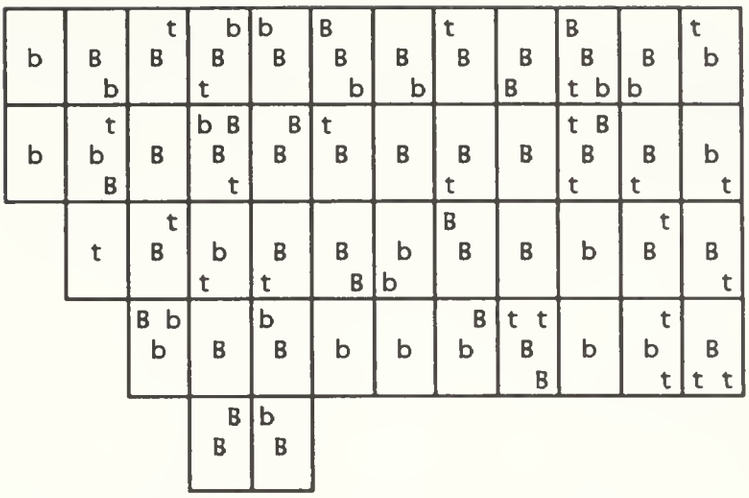
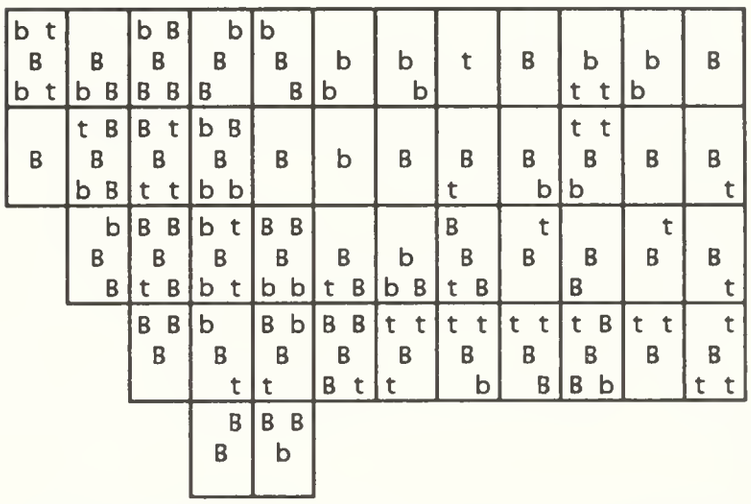
```



Red-tailed Hawk
Buteo jamaicensis

```
WW-------W--
WWWWW-W----W
 W--W--WW-WW
  WWWWWWWW--
   -W
```



Ferruginous Hawk
Buteo regalis
TES

```
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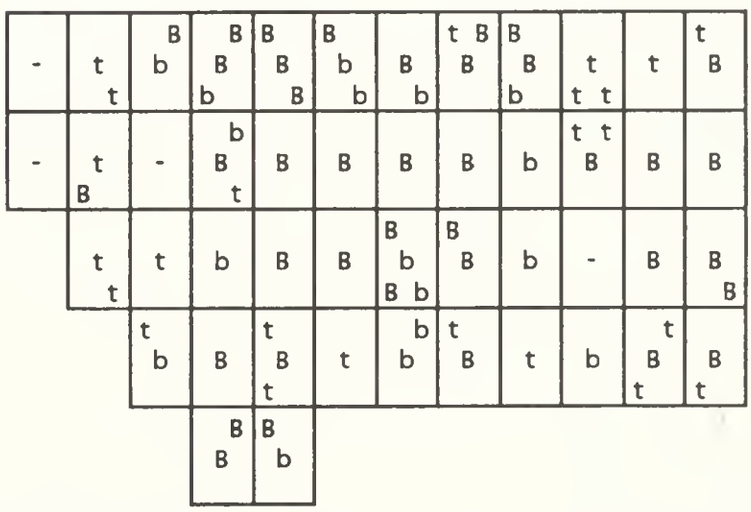
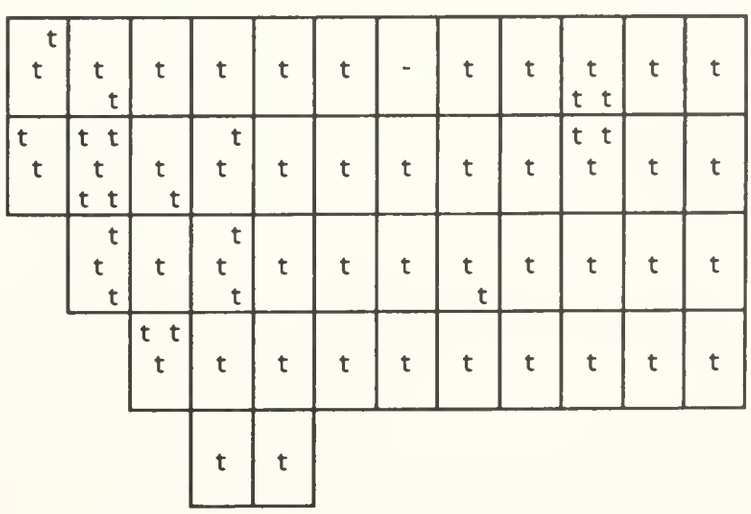
 ---------WW
  -W---W----
   --
```



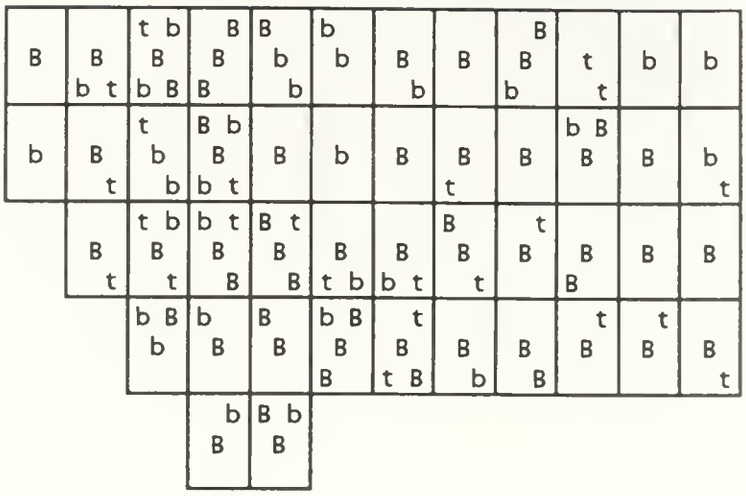
Rough-legged Hawk
Buteo lagopus

```
WWWWWW-WWWWW
WWWWWWWWWWWW
 WWWWWWWWWWW
  WWWWWWWWWW
   WW
```



Golden Eagle
Aquila chrysaetos

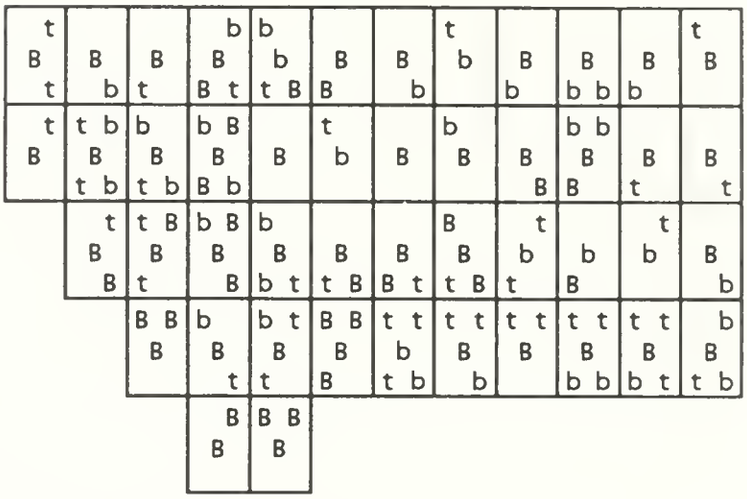
```
wwwwwwwwwww
wwwwwwwwwww
 wwwwwwwwww
  wwwwwwwww
   ww
```



■ Falconidae

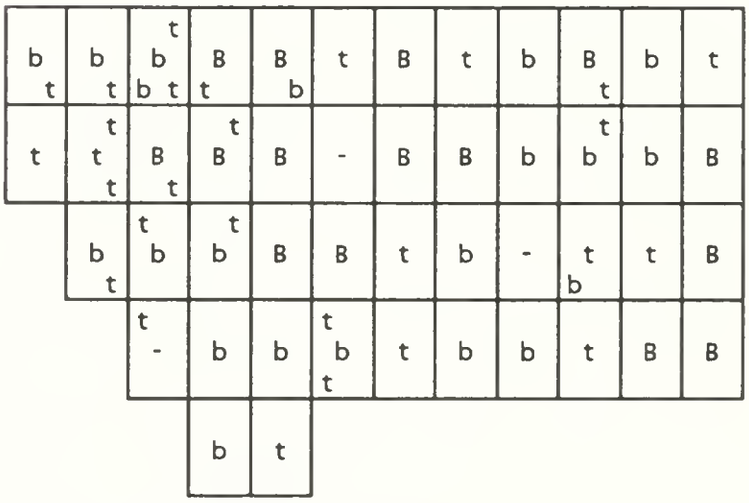
American Kestrel
Falco sparverius

```
ww-------w--
ww-www------
 w-www-wwww-
  --ww-w-w-w
   --
```



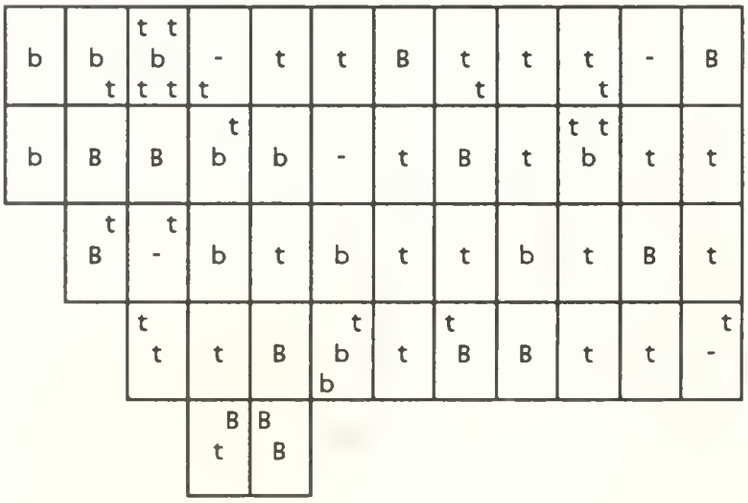
Merlin
Falco columbarius

```
www-www-www-
ww-ww-ww---w
 ww-w----www
  -ww--w-w-w
   --
```

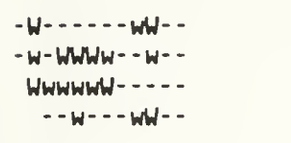


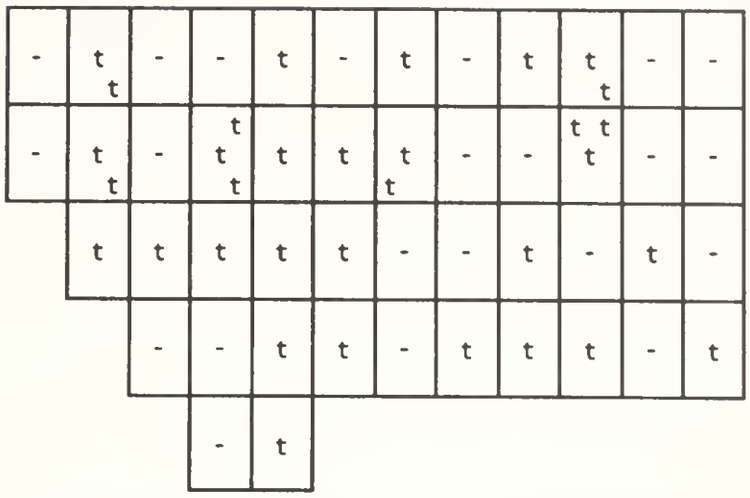
Peregrine Falcon
Falco peregrinus
TES

```
ww---w-www--
-w--w--ww-w-
 w--w-ww-w--
  -www-w----
   --
```

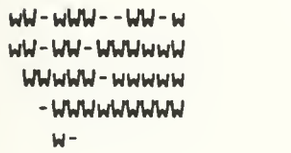


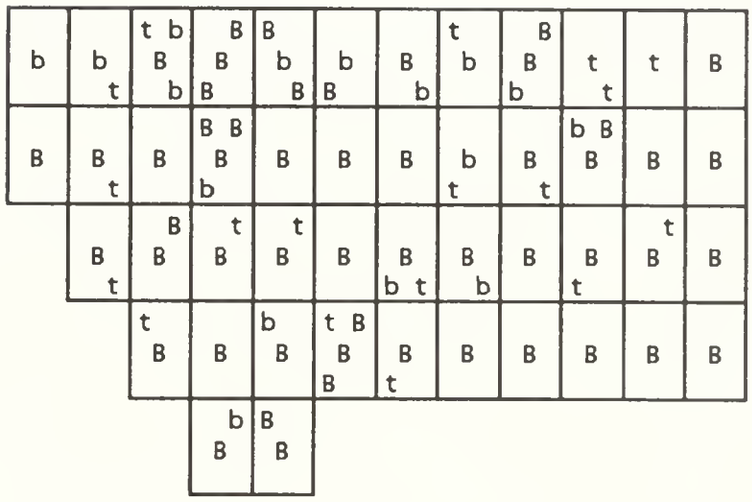
Gyrfalcon
Falco rusticolus





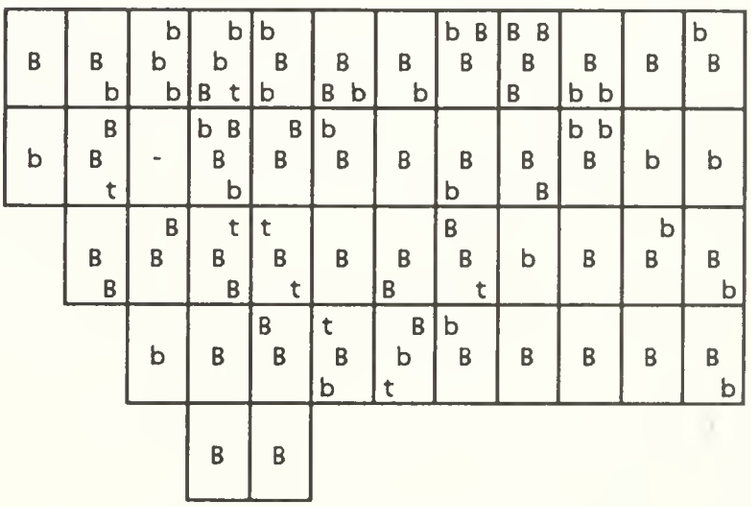
Prairie Falcon
Falco mexicanus



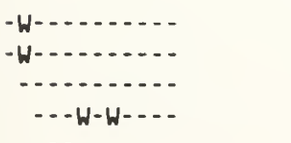


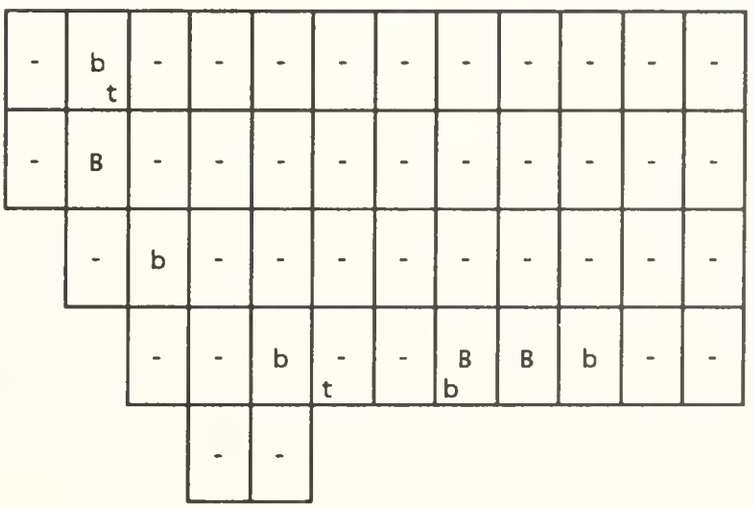
◘ GALLIFORMES ■ Phasianidae

Gray Partridge
Perdix perdix
(introduced)



Chukar
Alectoris chukar
(introduced)





Ring-necked Pheasant
Phasianus colchicus
(introduced)

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-W-WWWWWWWW
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  -WWWWWWW-
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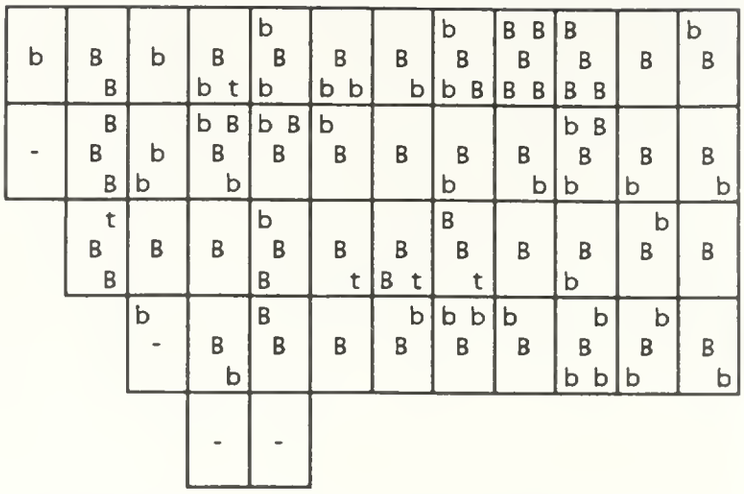

Spruce Grouse
Dendragapus canadensis

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WWWW--------
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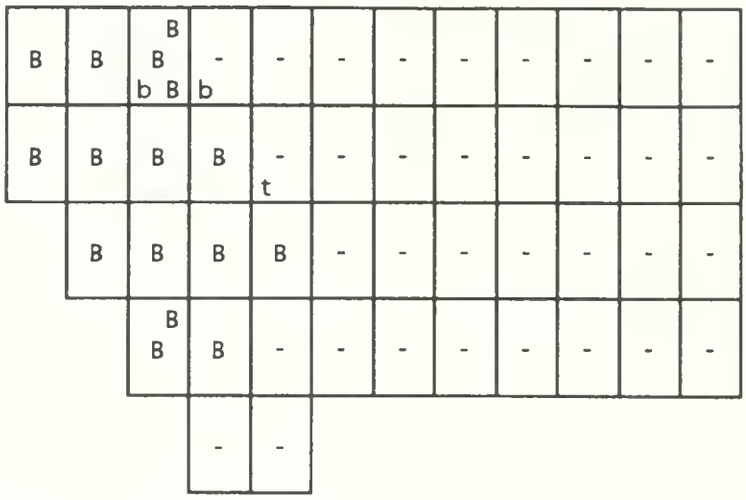

Blue Grouse
Dendragapus obscurus

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WWWW-WWW----
 WW-WWWW----
  --WW------
   -W
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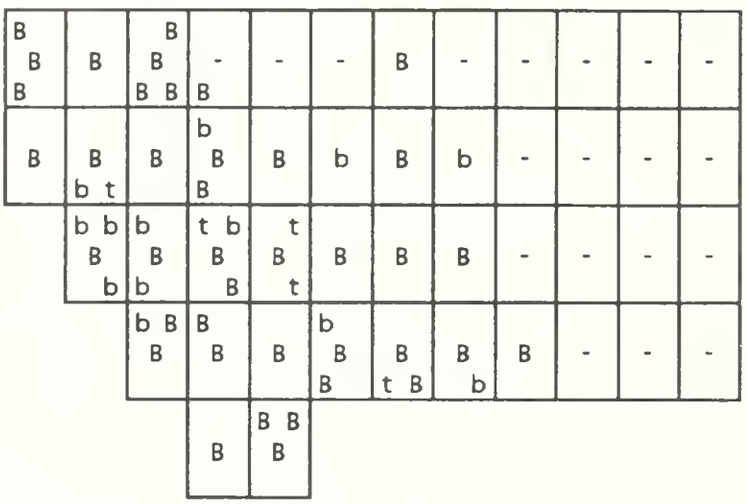

Willow Ptarmigan
Lagopus lagopus
LL 3; Feb. 21, 1914; Midvale
n=1

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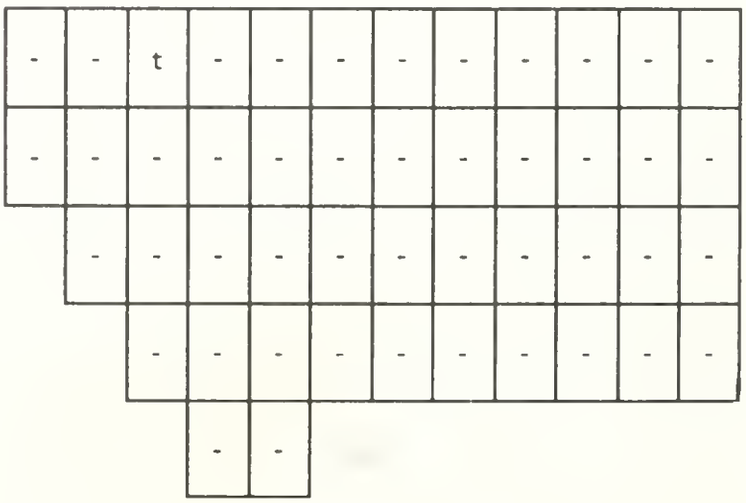

White-tailed Ptarmigan
Lagopus leucurus

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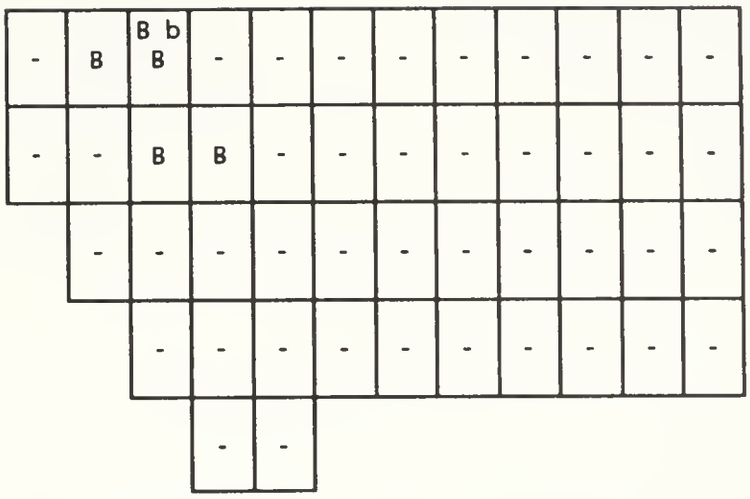

Ruffed Grouse
Bonasa umbellus

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WWWW--------
WWWW-WWWW---
 WWWWWWW----
  -WWWW-----
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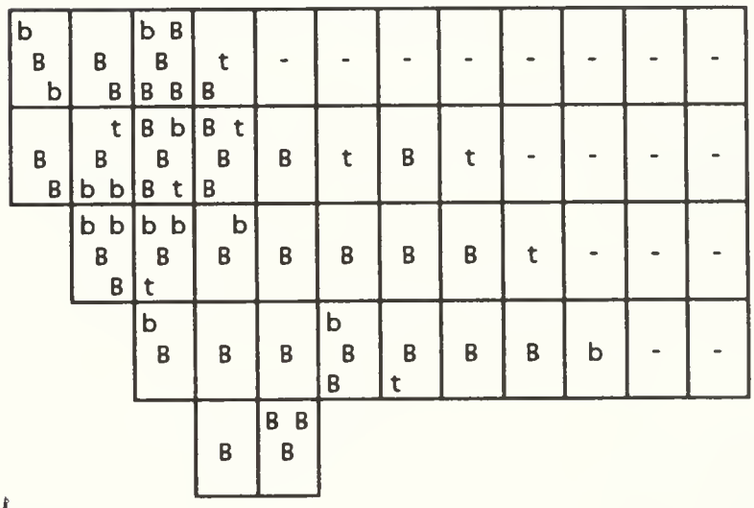

Sage Grouse
Centrocercus urophasianus

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   -W
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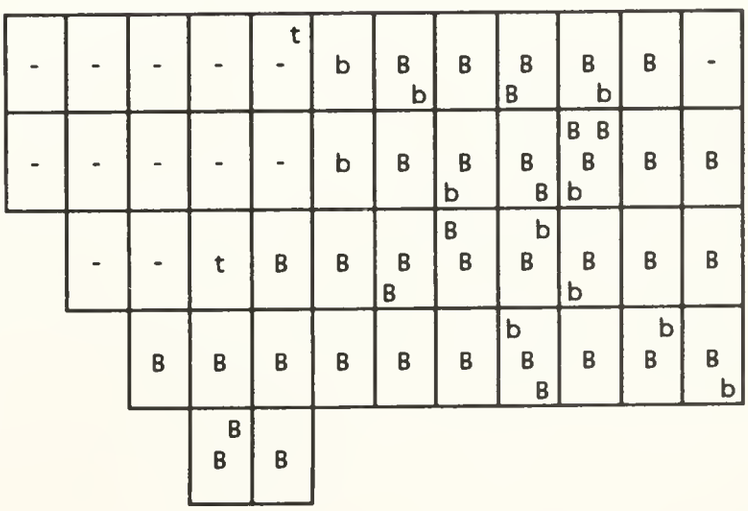
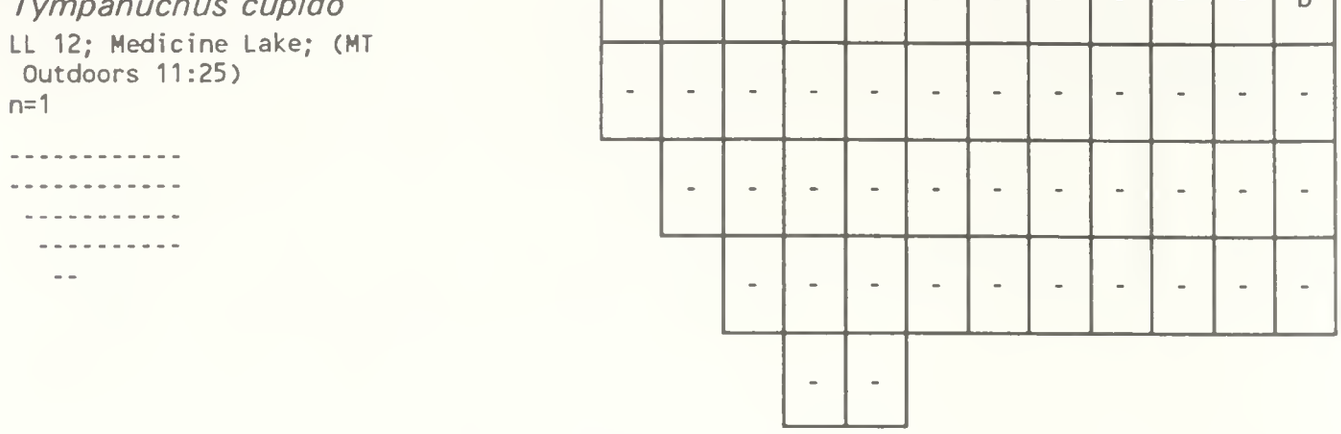


Greater Prairie-chicken

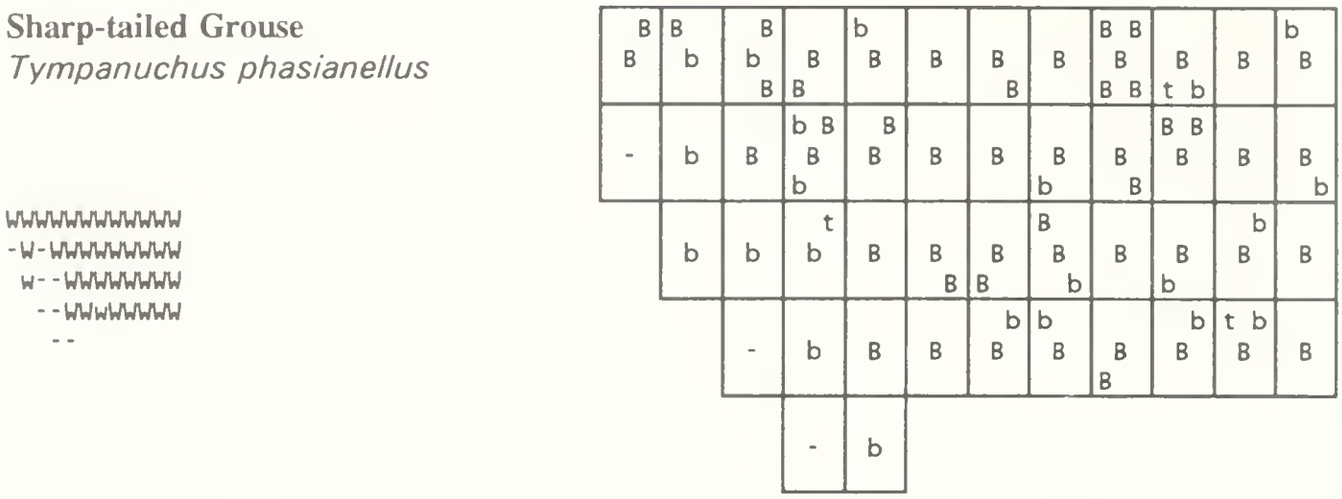
Tympanuchus cupido

LL 12; Medicine Lake; (MT Outdoors 11:25)
n=1



Sharp-tailed Grouse

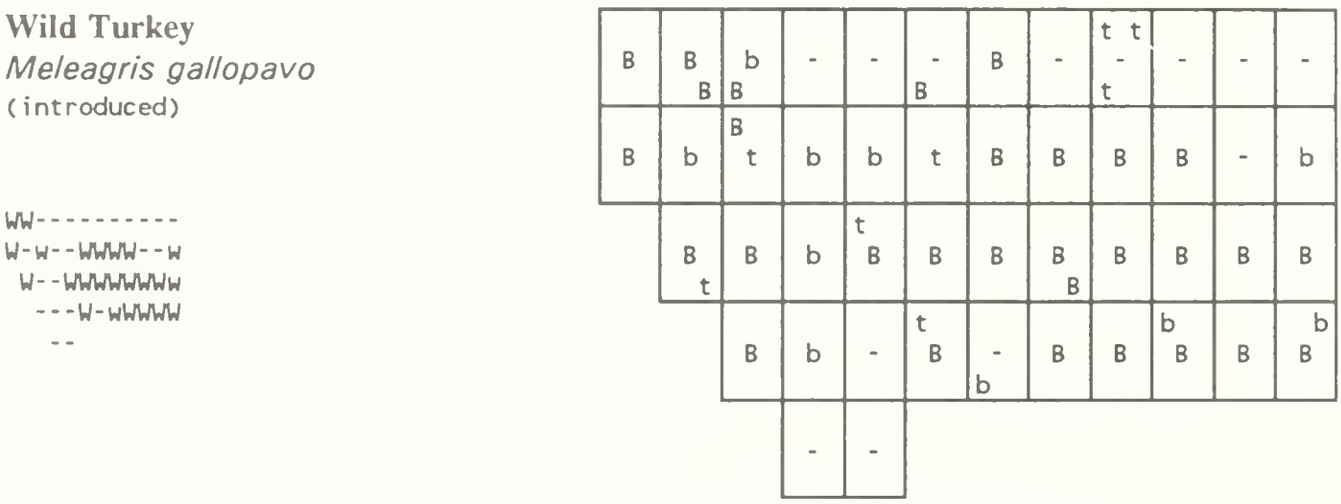
Tympanuchus phasianellus



Wild Turkey

Meleagris gallopavo

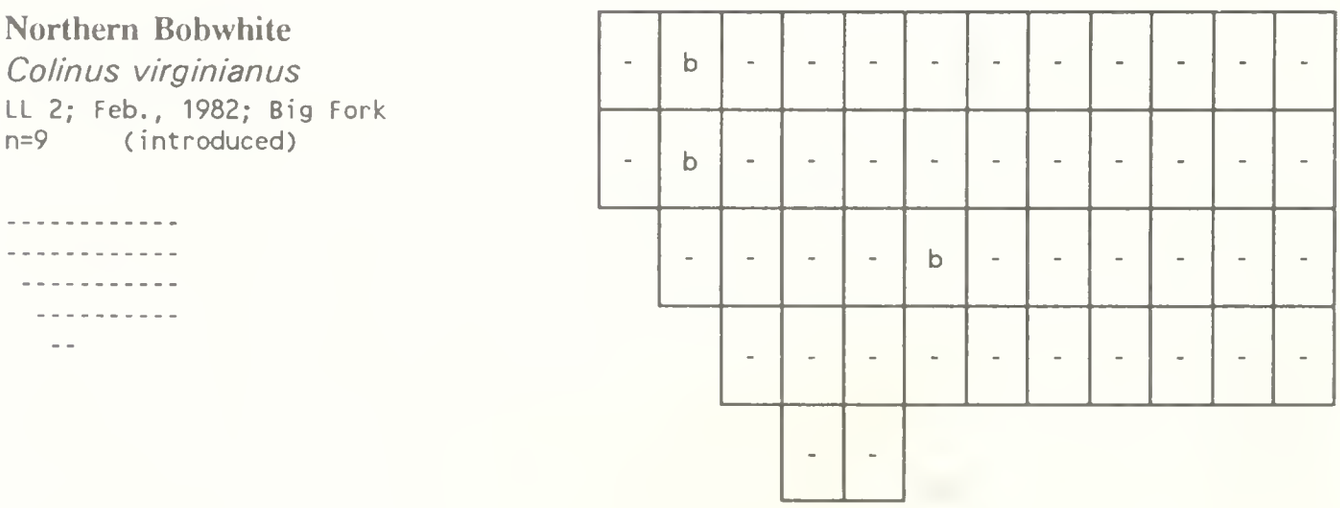
(introduced)



Northern Bobwhite

Colinus virginianus

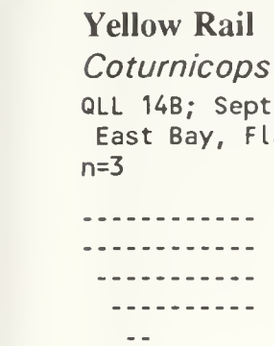
LL 2; Feb., 1982; Big Fork
n=9 (introduced)

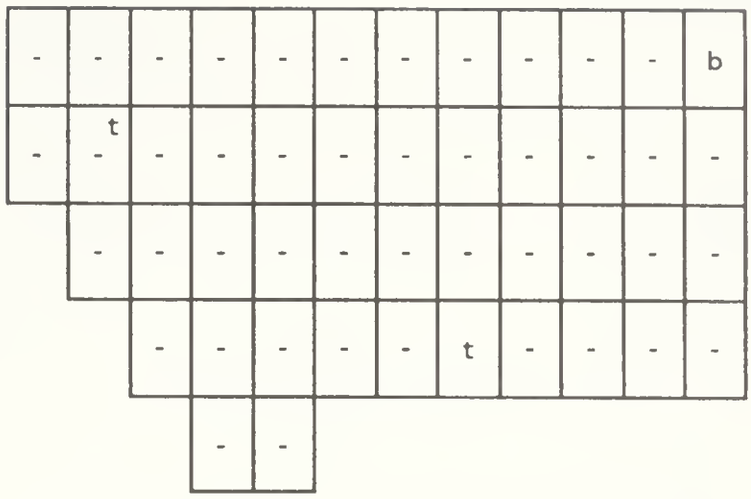


Yellow Rail

Coturnicops noveboracensis

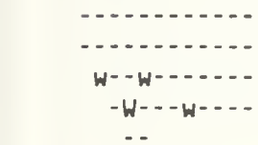
QLL 14B; Sept. 30, 1984;
East Bay, Flathead Lake
n=3

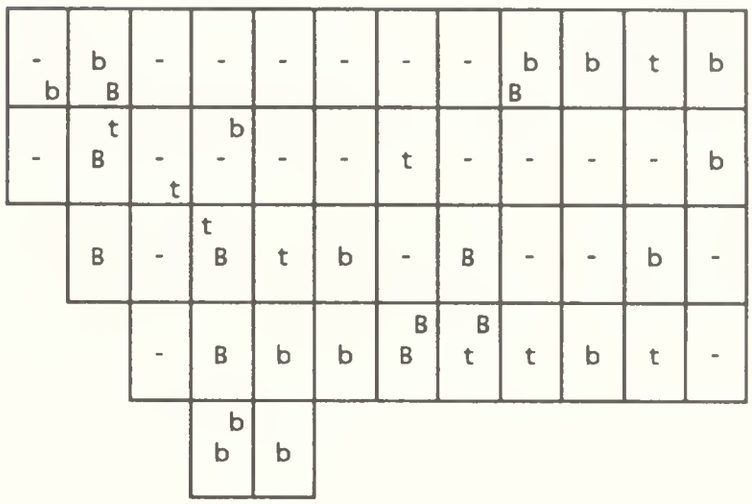




Virginia Rail

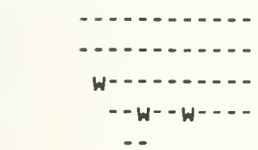
Rallus limicola

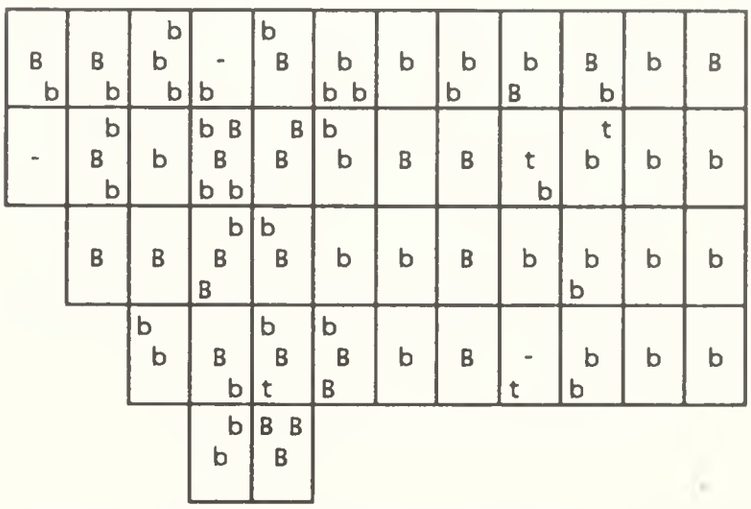




Sora

Porzana carolina

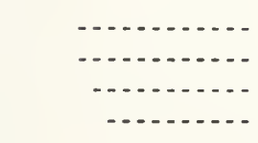


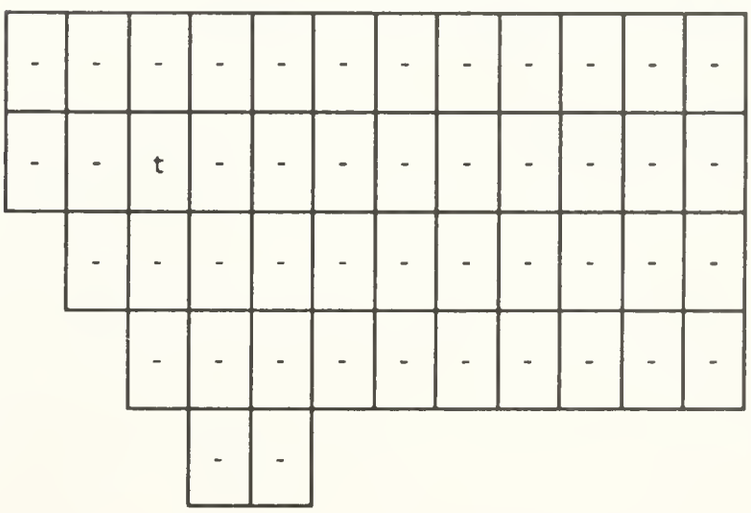


Common Moorhen

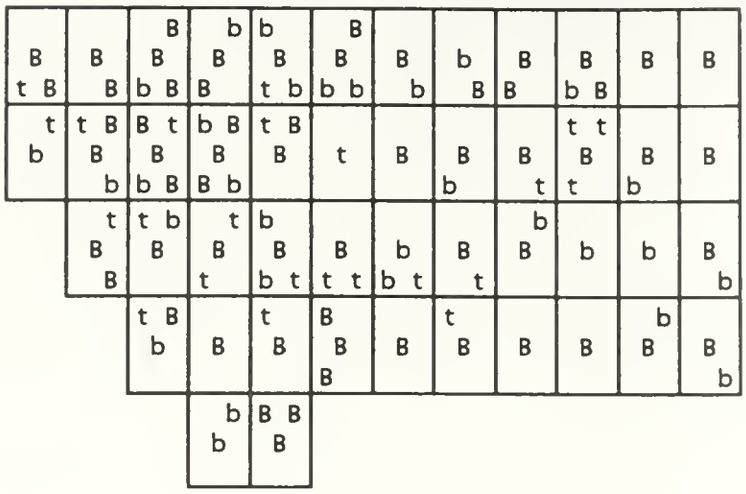
Gallinula chloropus

LL 15; May 2, 1972; Seeley Lake
n=1





American Coot
Fulica americana



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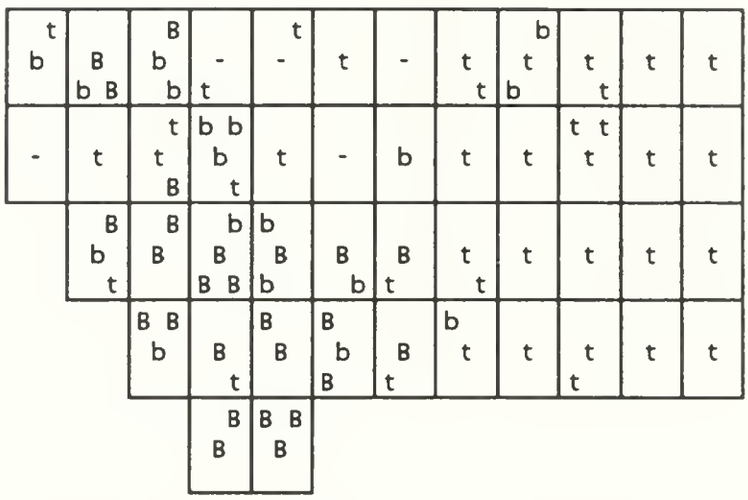
■ **Gruidae** ----------

Sandhill Crane
Grus canadensis



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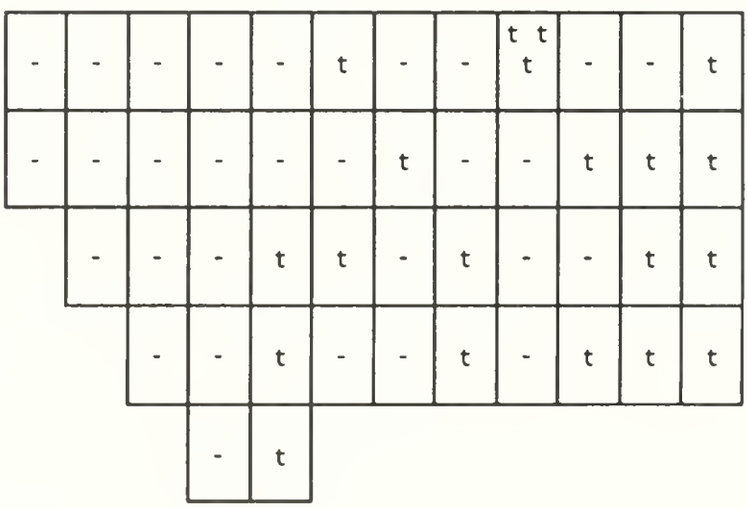
Whooping Crane
Grus americana
TES



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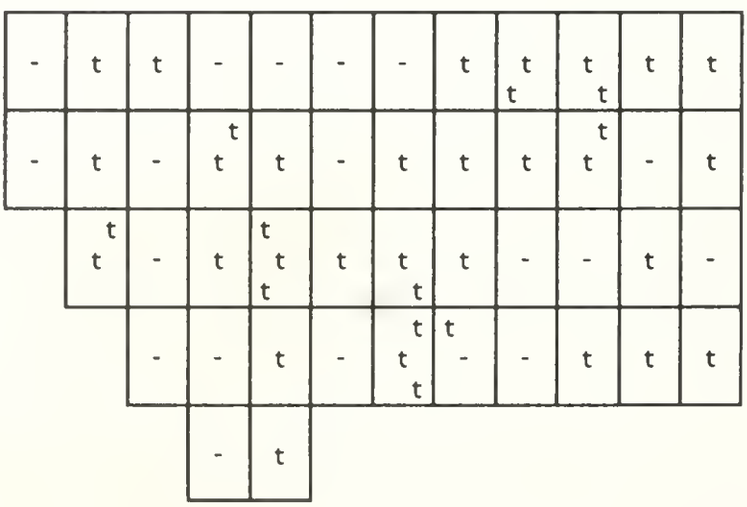
CHARADRIIFORMES ■ **Charadriidae** ----------

Black-bellied Plover
Pluvialis squatarola



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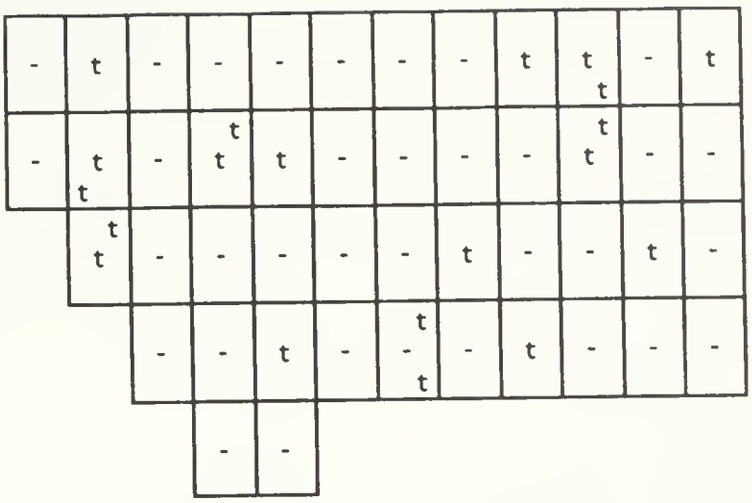
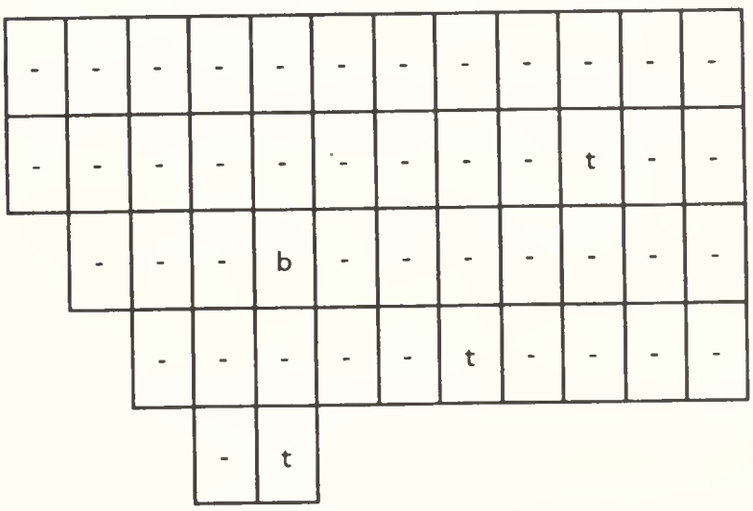
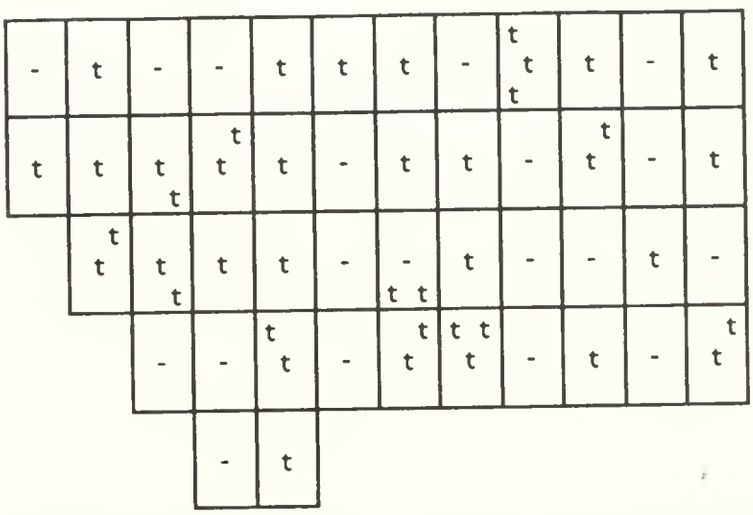
Lesser Golden-plover
Pluvialis dominica



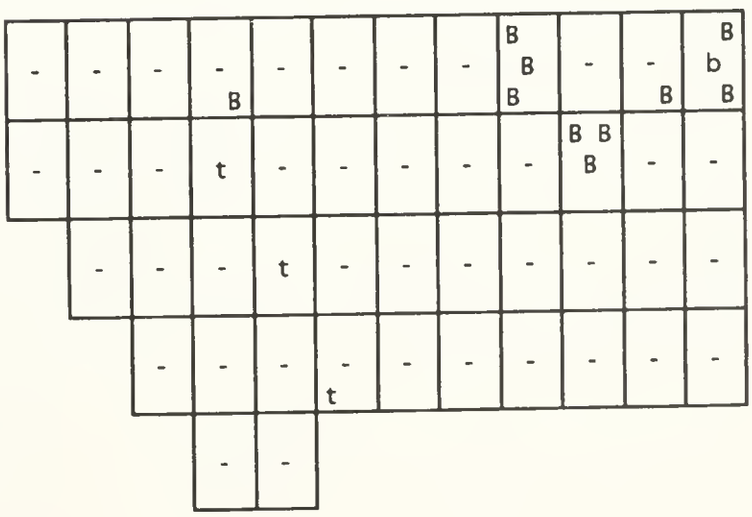
Snowy Plover
Charadrius alexandrinus
LL 41; Sept. 5, 1982;
Broadview
n=4 TES



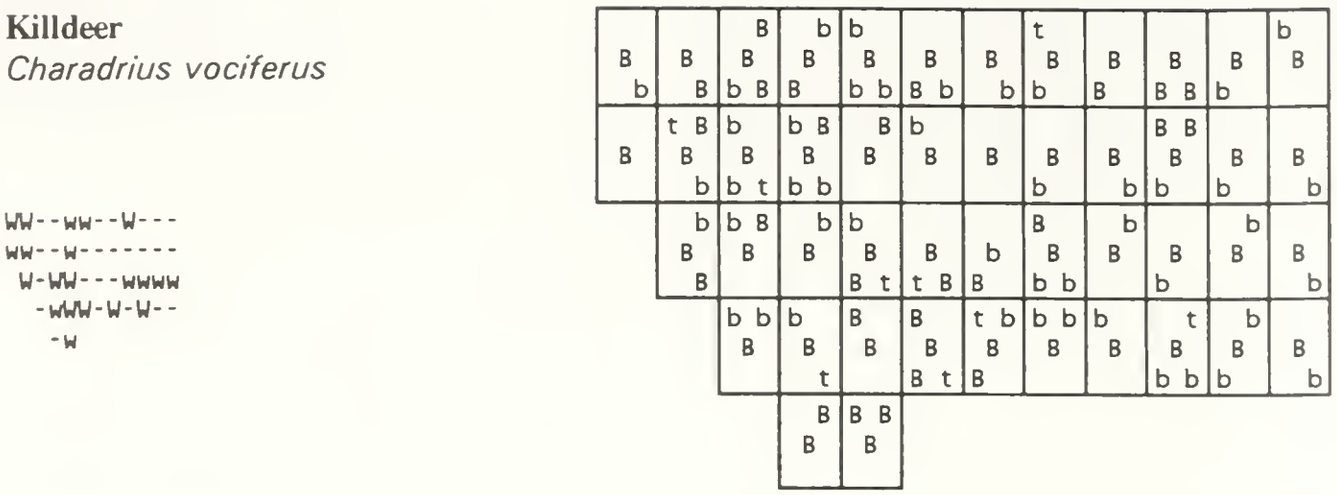
Semipalmated Plover
Charadrius semipalmatus



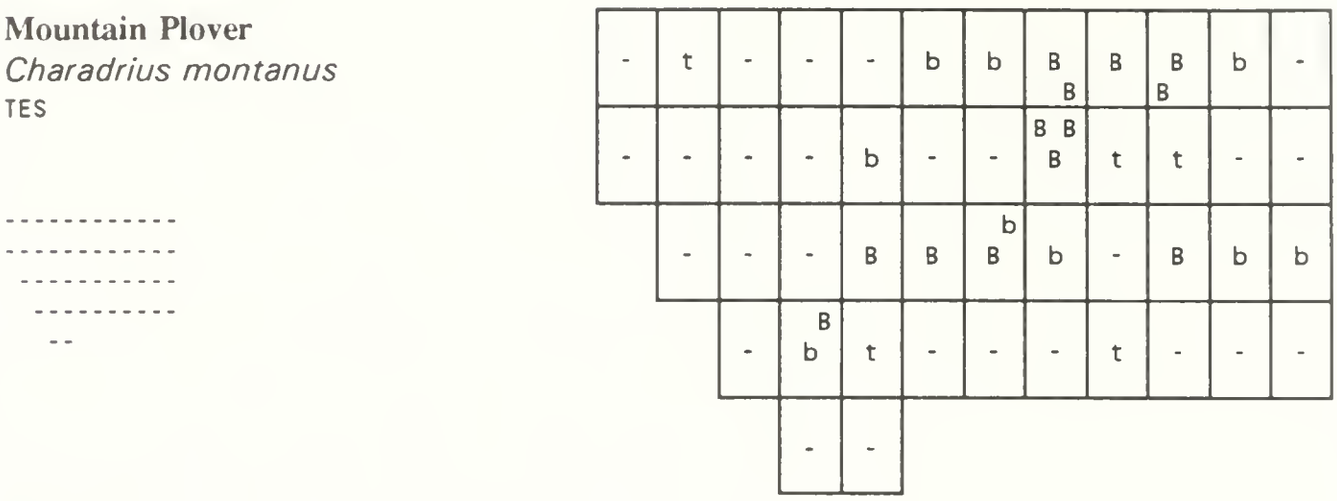
Piping Plover
Charadrius melodus
TES



Killdeer
Charadrius vociferus

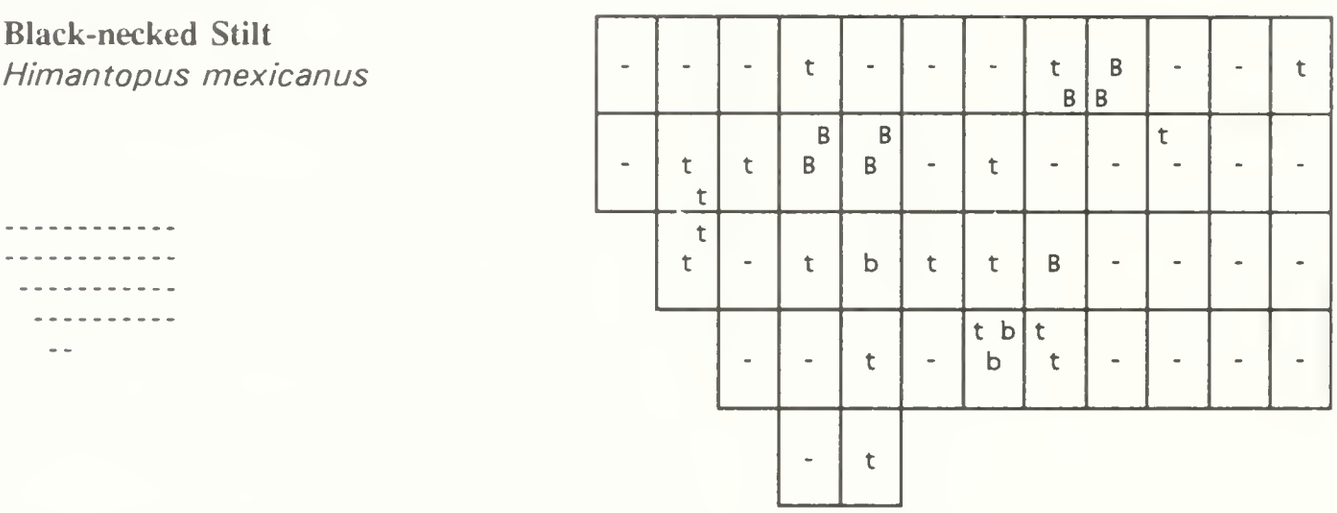


Mountain Plover
Charadrius montanus
TES

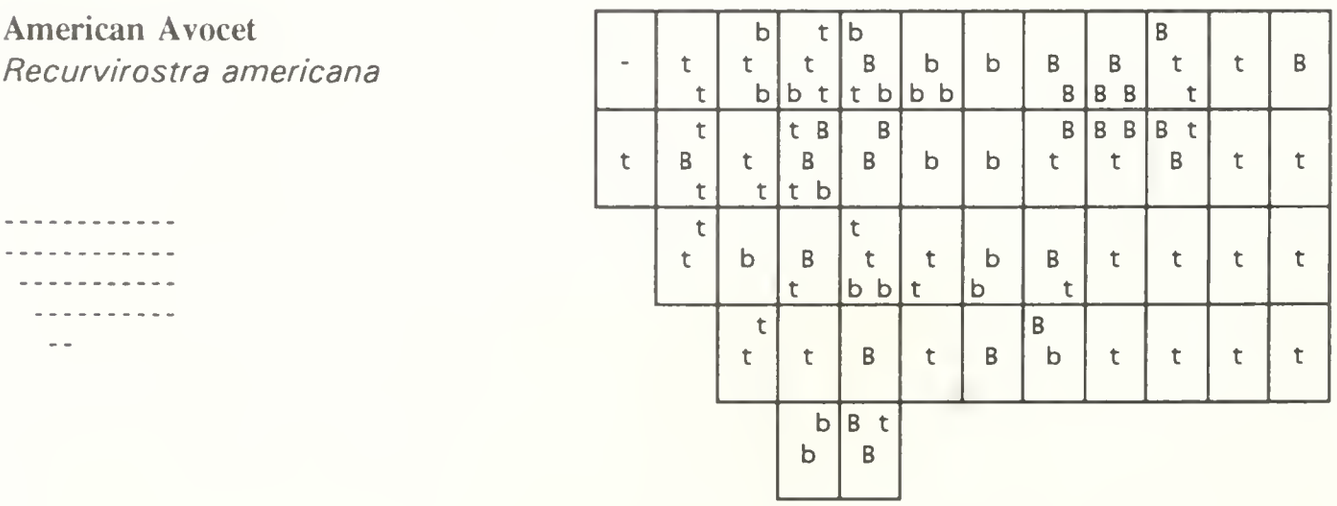


■ **Recurvirostridae**

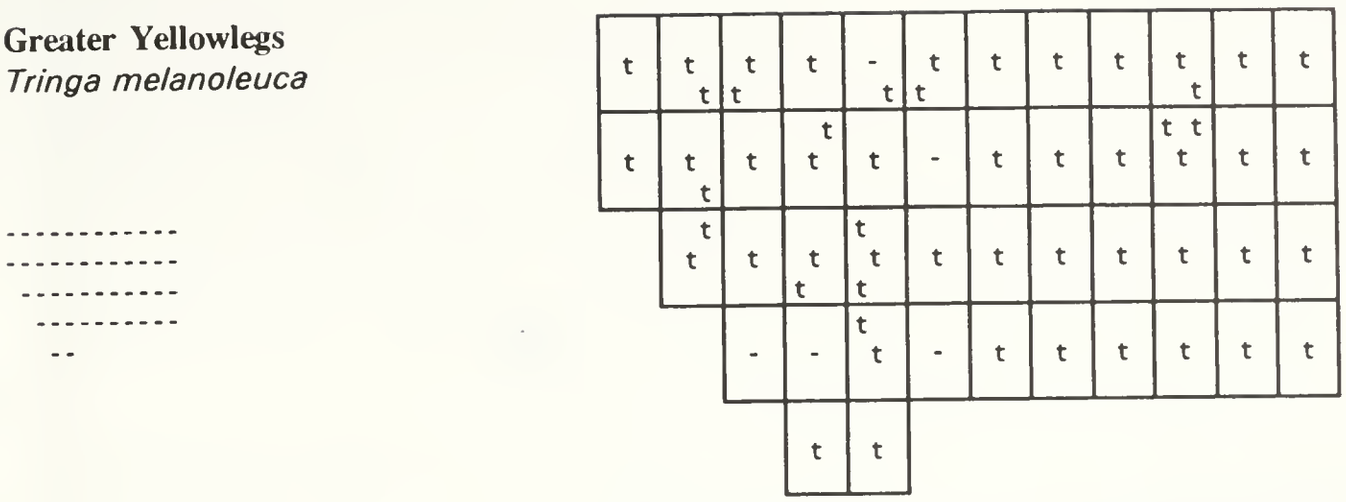
Black-necked Stilt
Himantopus mexicanus



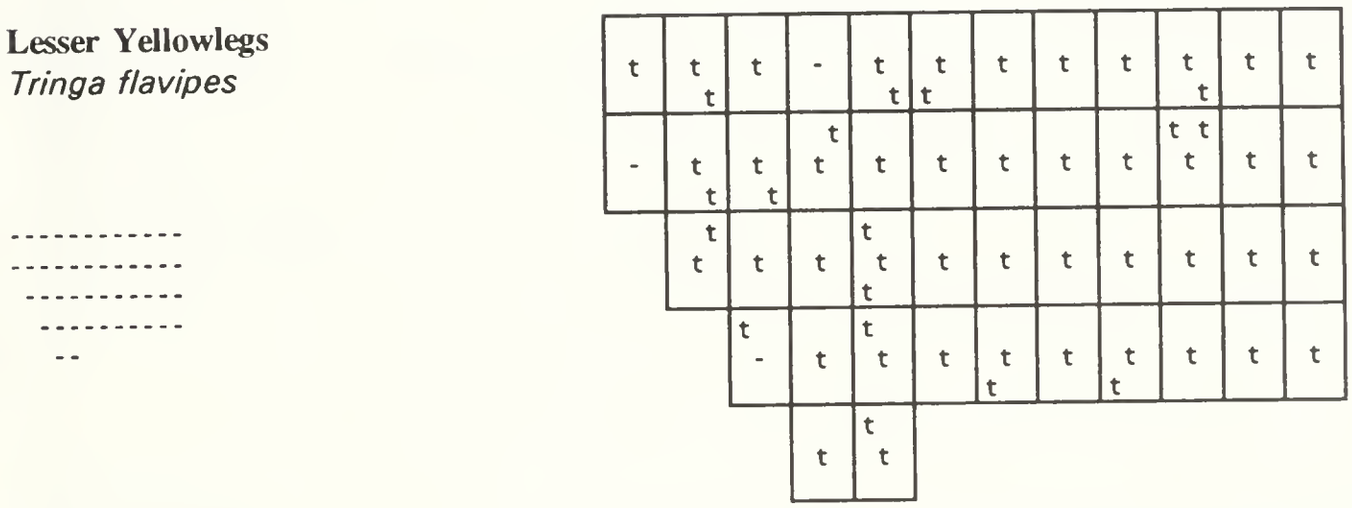
American Avocet
Recurvirostra americana



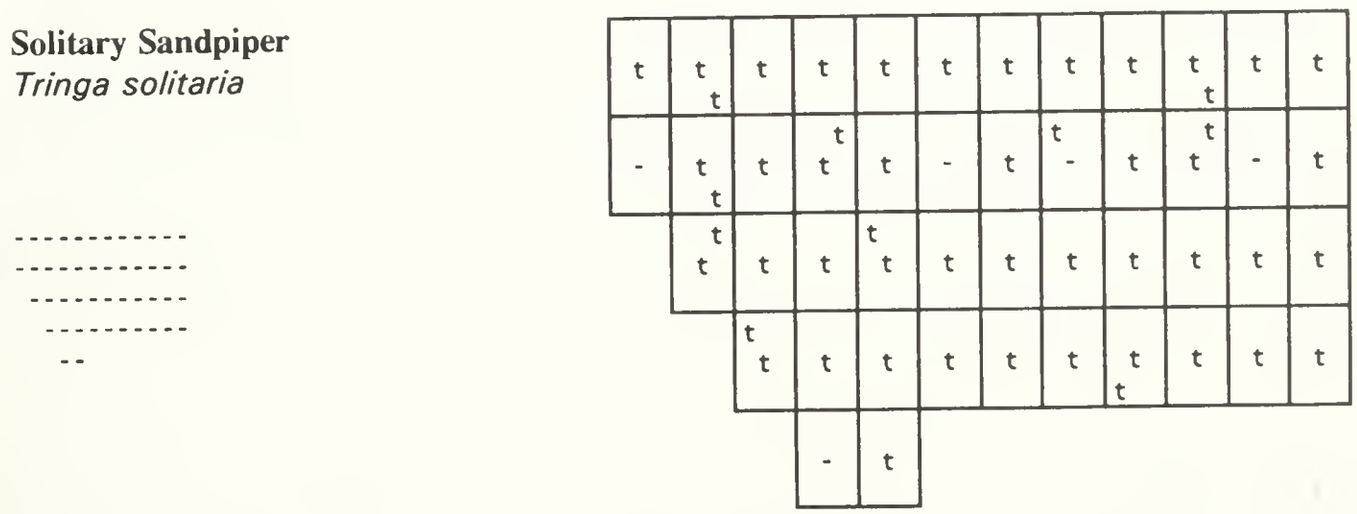
Greater Yellowlegs
Tringa melanoleuca



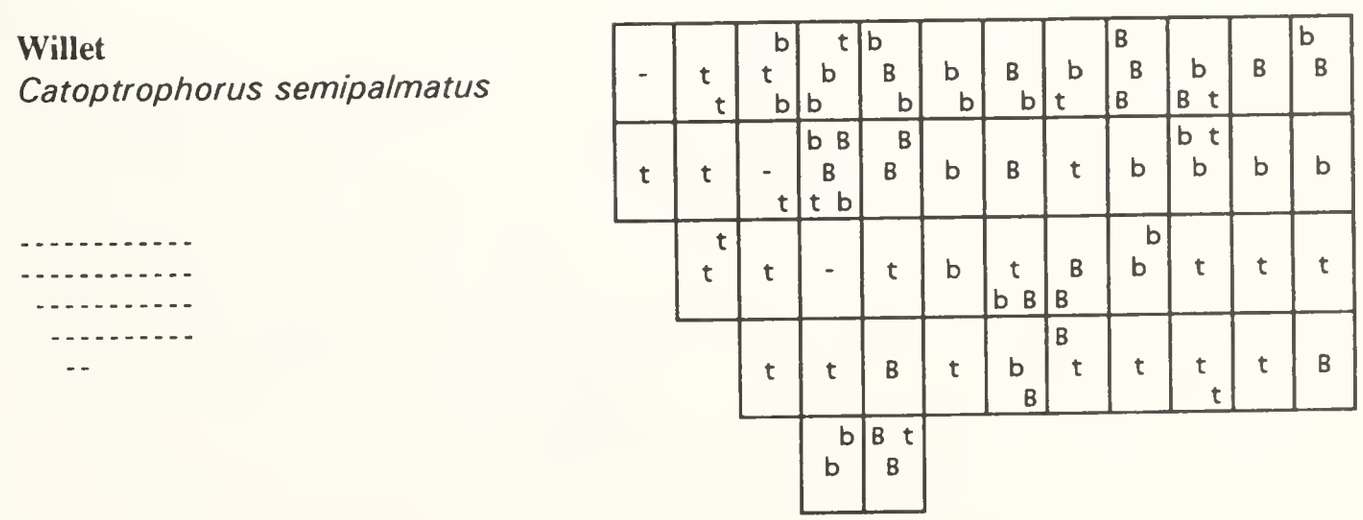
Lesser Yellowlegs
Tringa flavipes



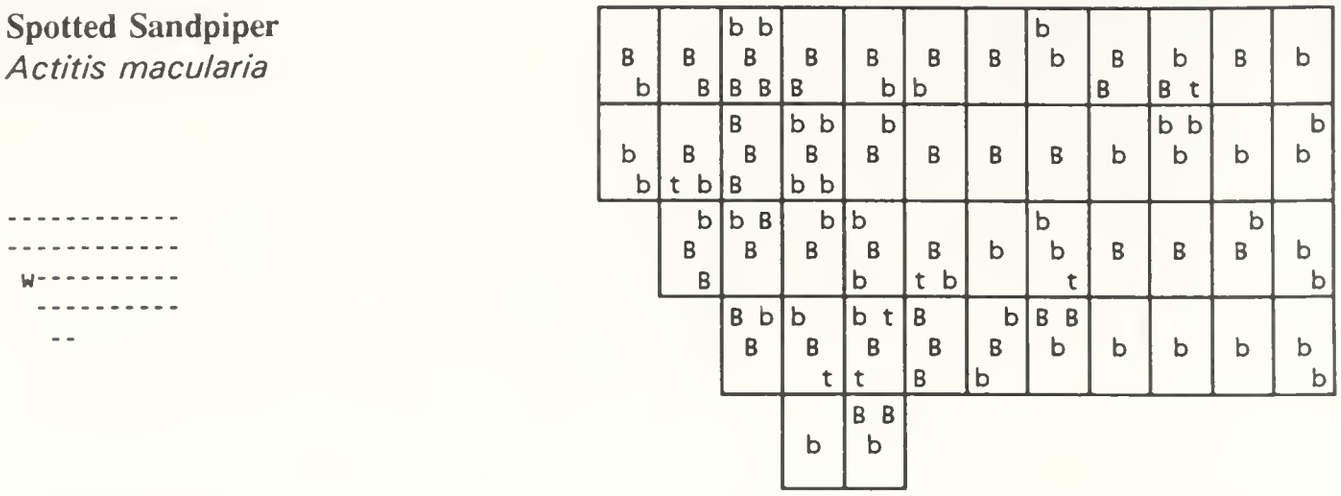
Solitary Sandpiper
Tringa solitaria



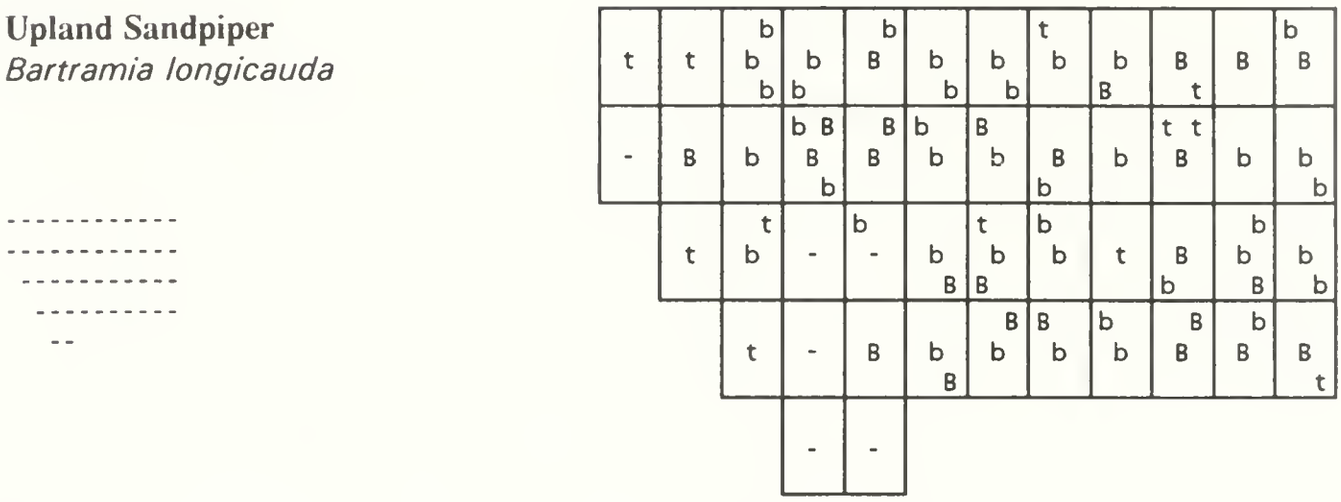
Willet
Catoptrophorus semipalmatus



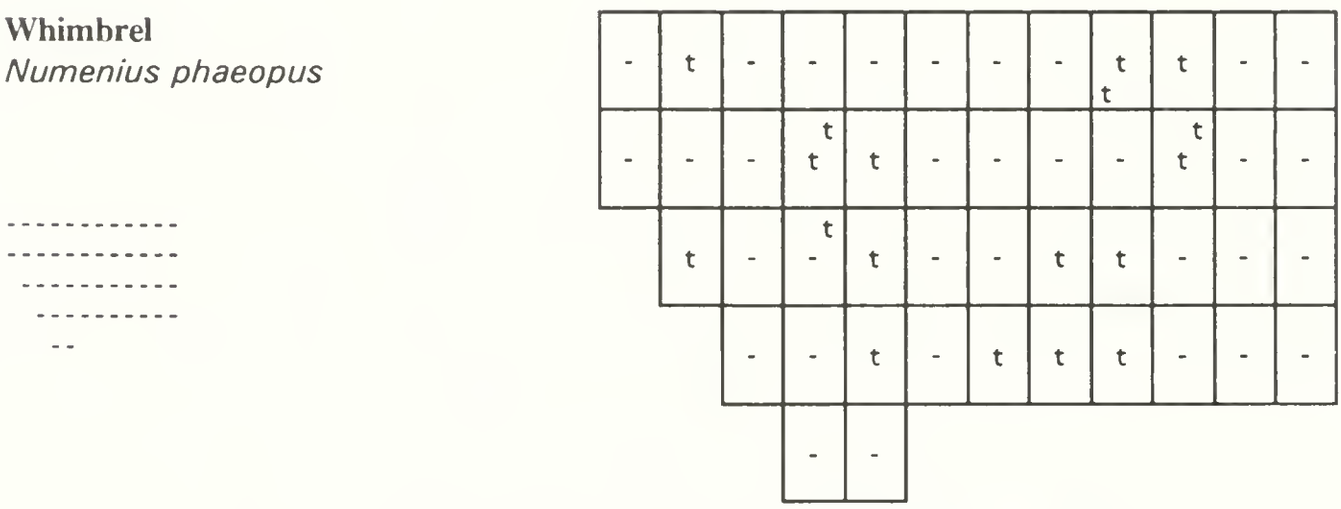
Spotted Sandpiper
Actitis macularia



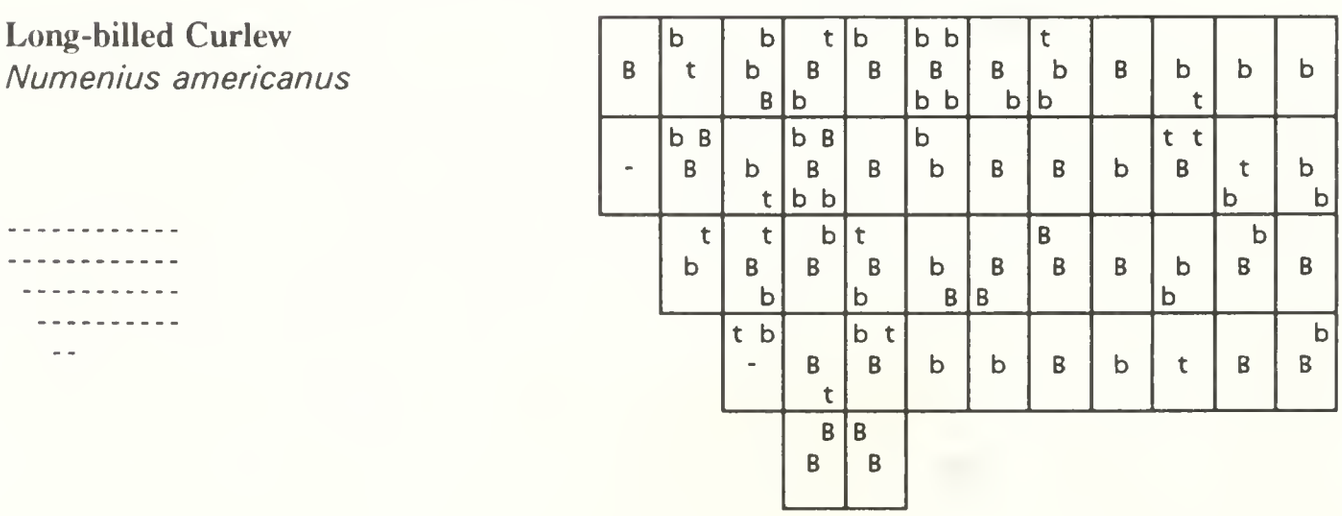
Upland Sandpiper
Bartramia longicauda



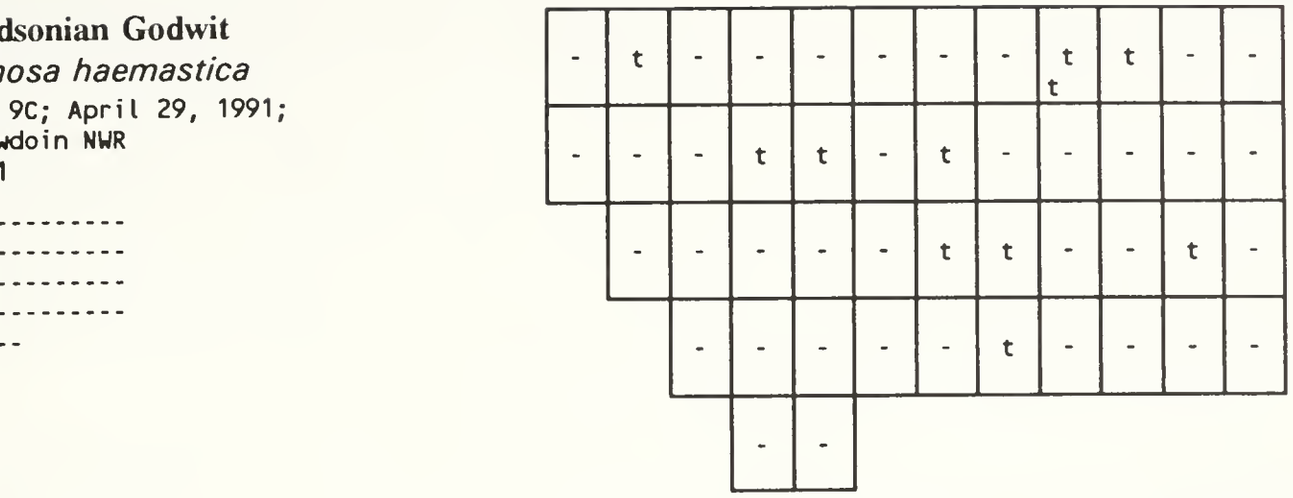
Whimbrel
Numenius phaeopus



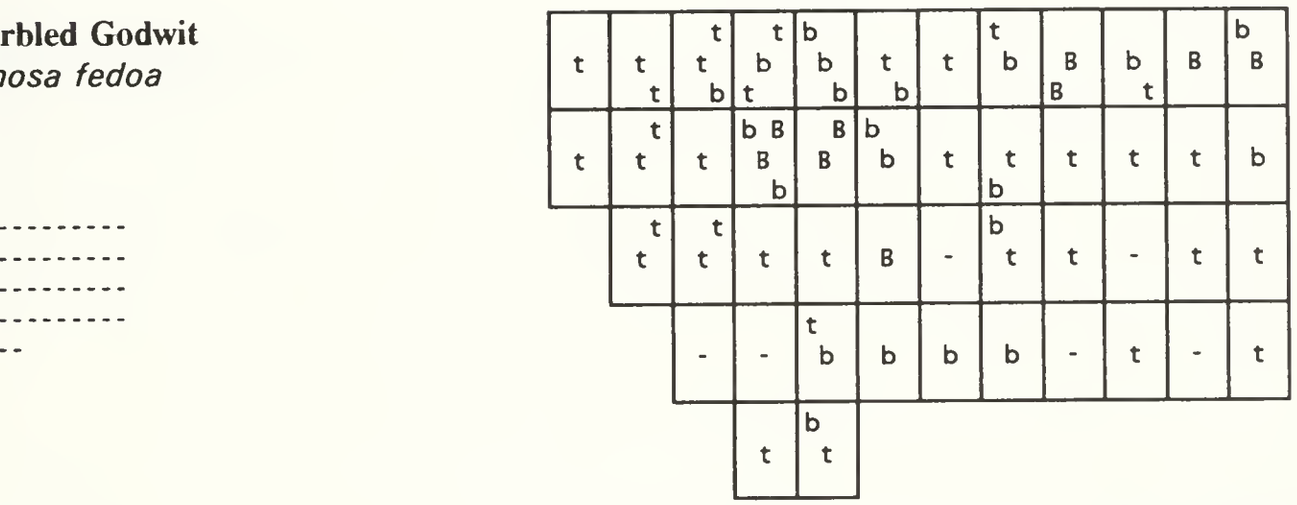
Long-billed Curlew
Numenius americanus



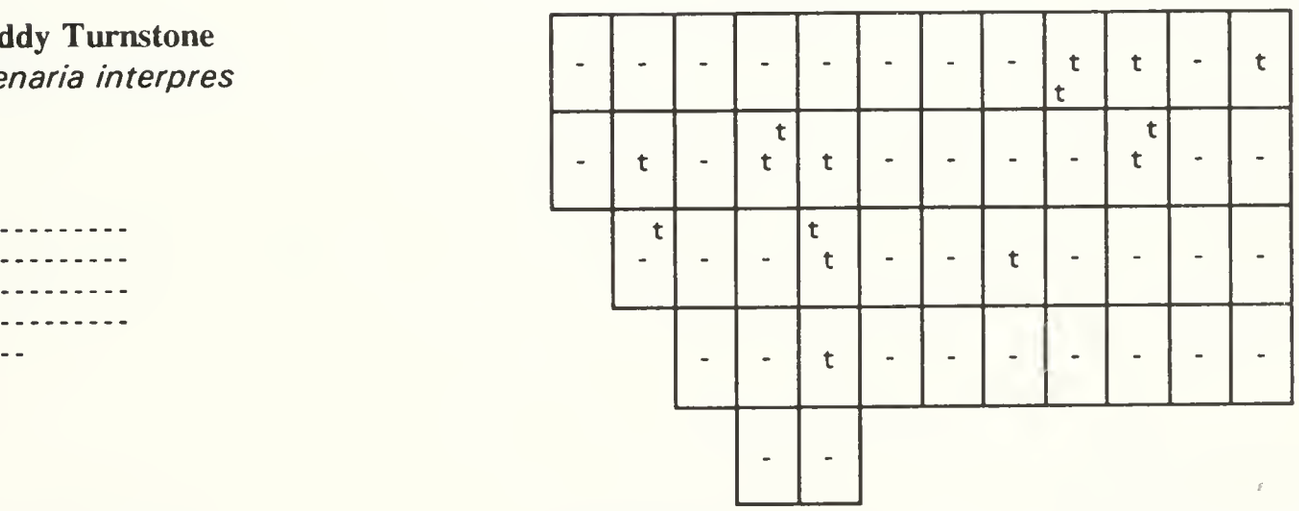
Hudsonian Godwit
Limosa haemastica
QLL 9C; April 29, 1991;
Bowdoin NWR
n=11



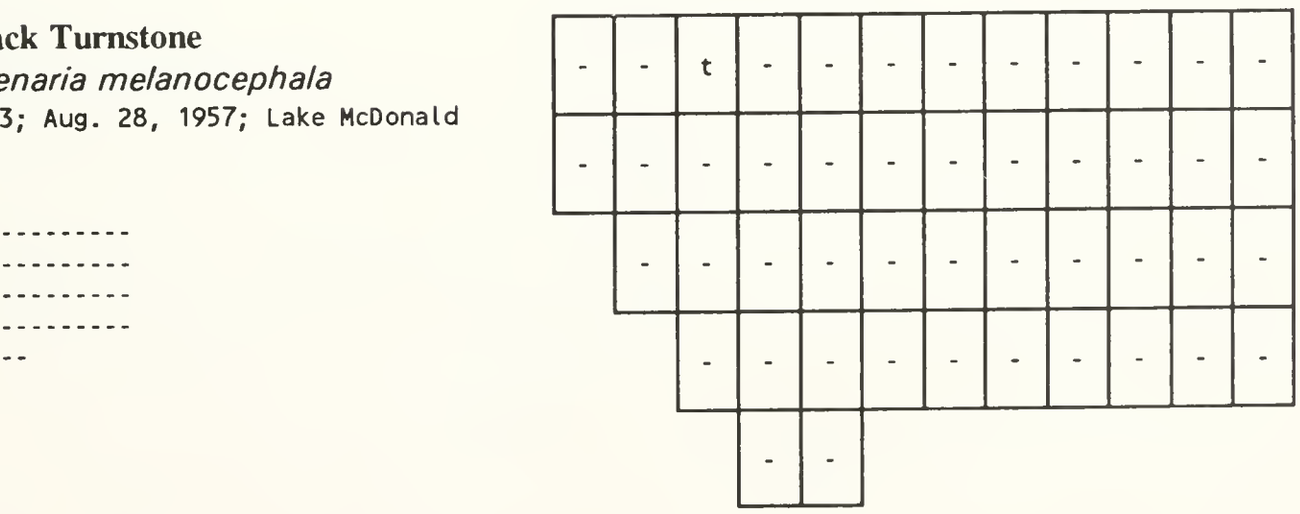
Marbled Godwit
Limosa fedoa



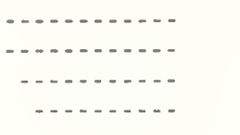
Ruddy Turnstone
Arenaria interpres

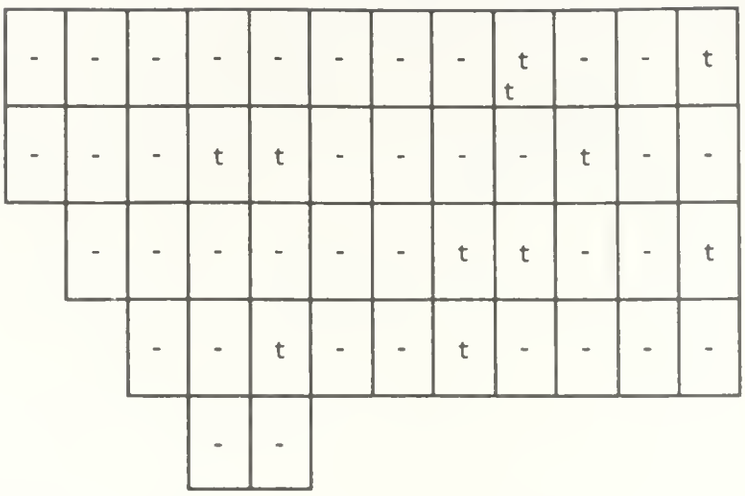


Black Turnstone
Arenaria melanocephala
LL 3; Aug. 28, 1957; Lake McDonald
n=1

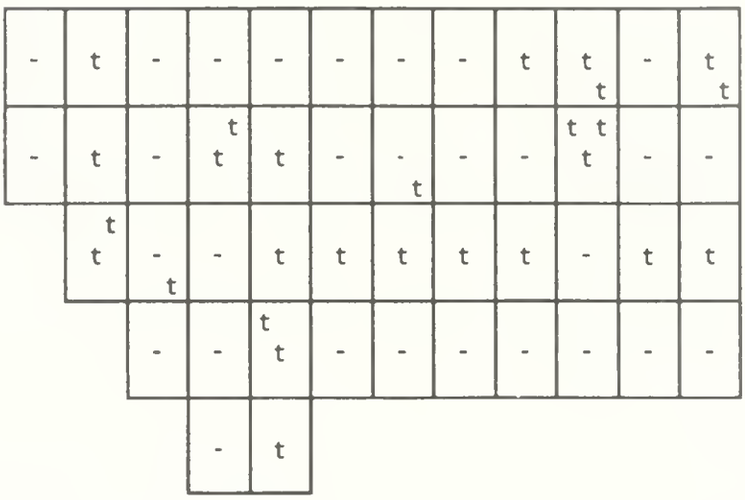


Red Knot
Calidris canutus
QLL 9C; May 13, 1988;
Bowdoin NWR
n=17

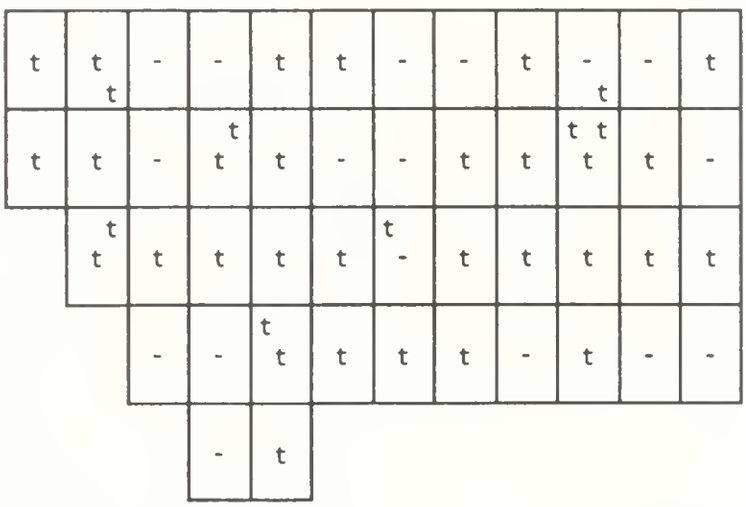




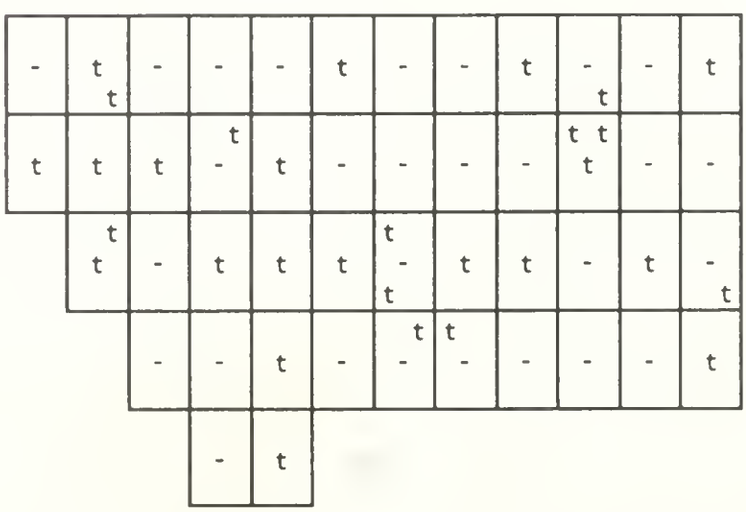
Sanderling
Calidris alba



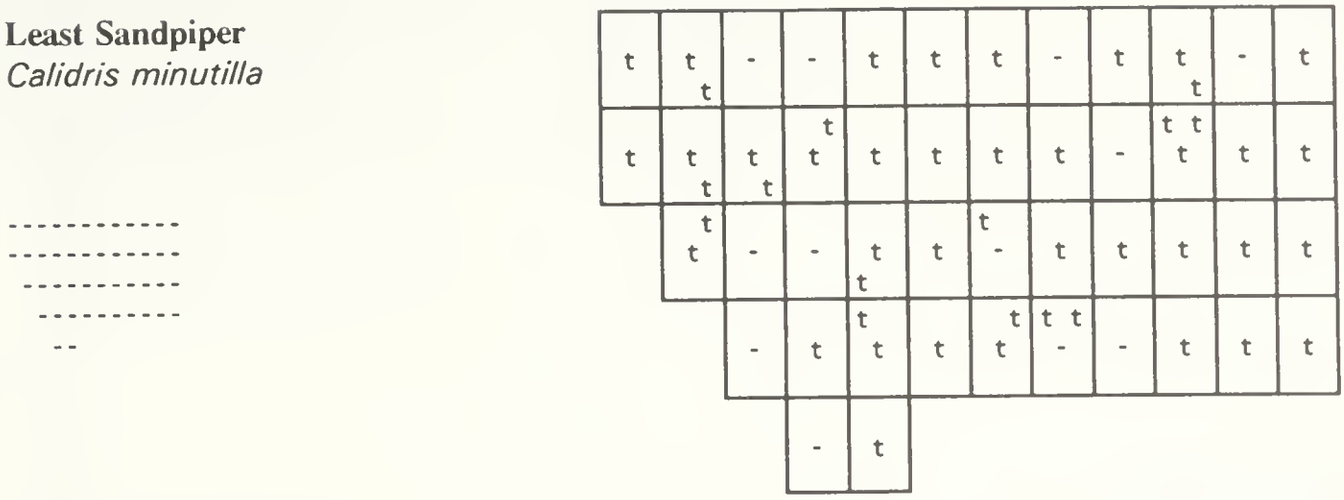
Semipalmated Sandpiper
Calidris pusilla



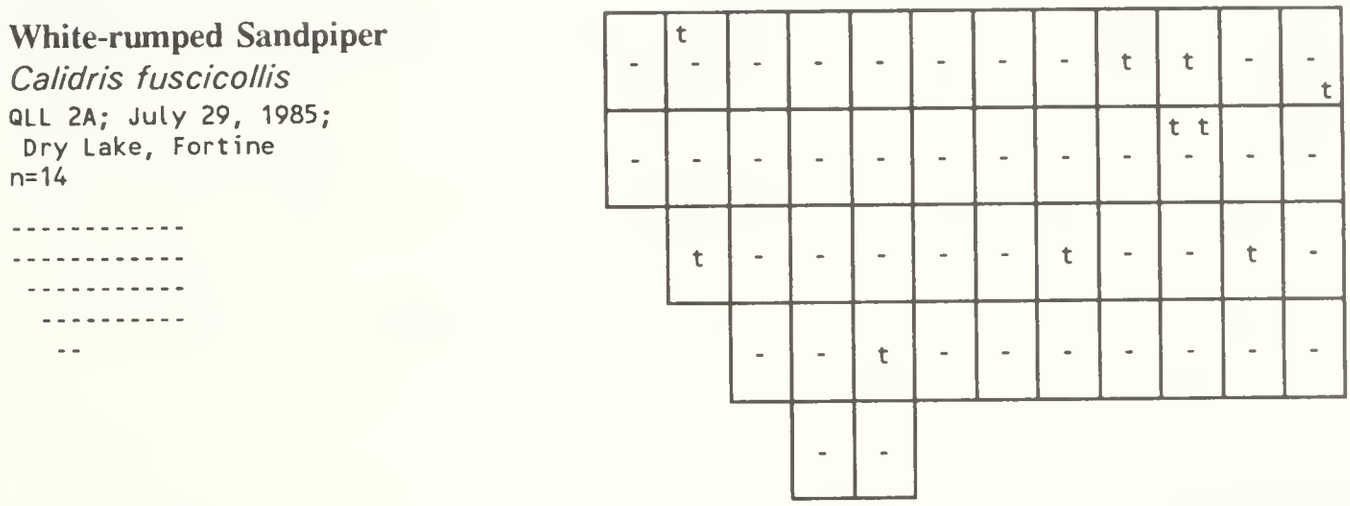
Western Sandpiper
Calidris mauri



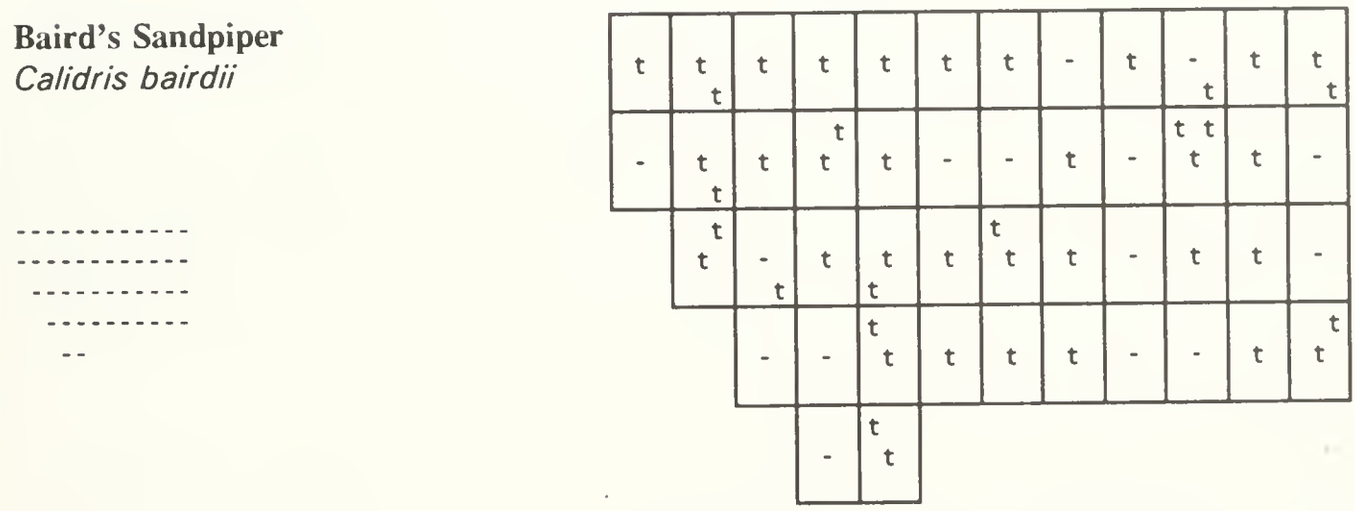
Least Sandpiper
Calidris minutilla



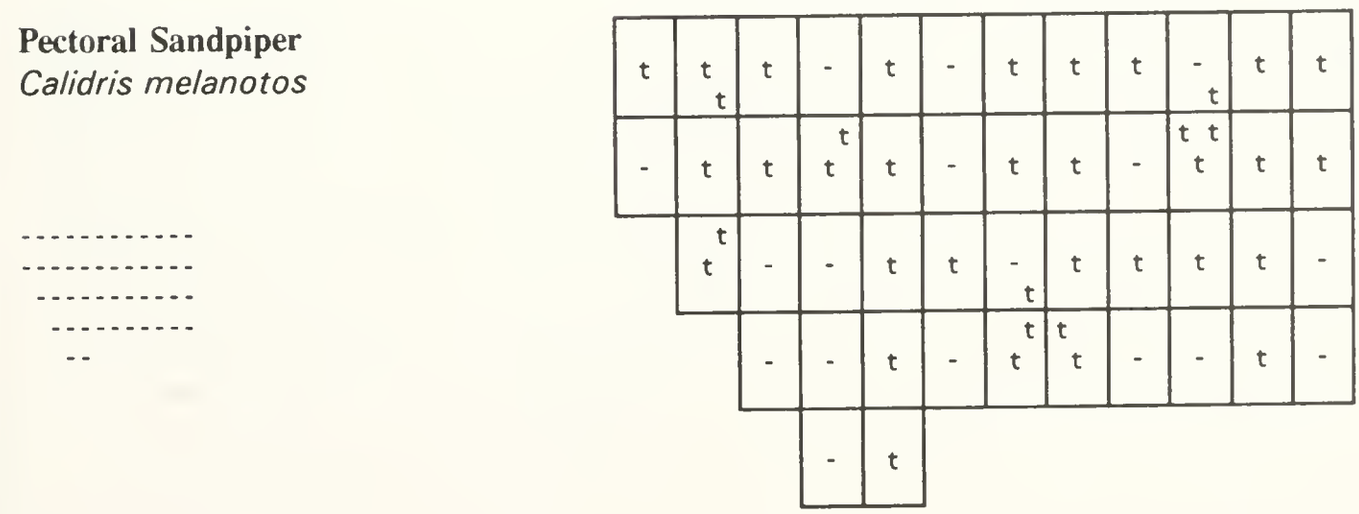
White-rumped Sandpiper
Calidris fuscicollis
QLL 2A; July 29, 1985;
Dry Lake, Fortine
n=14



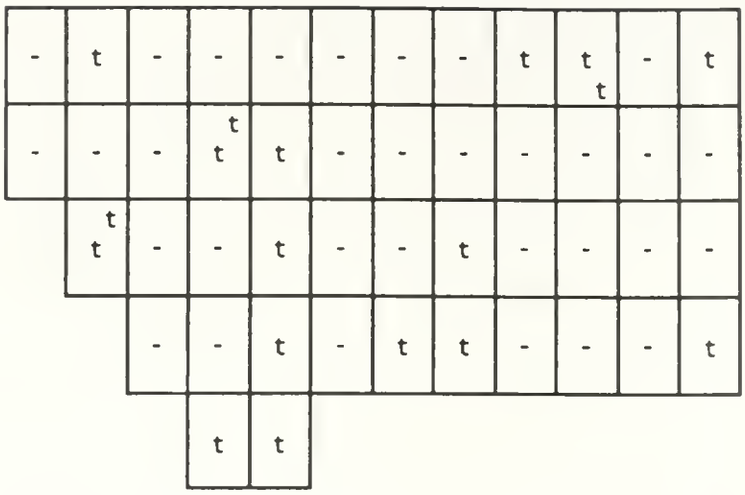
Baird's Sandpiper
Calidris bairdii



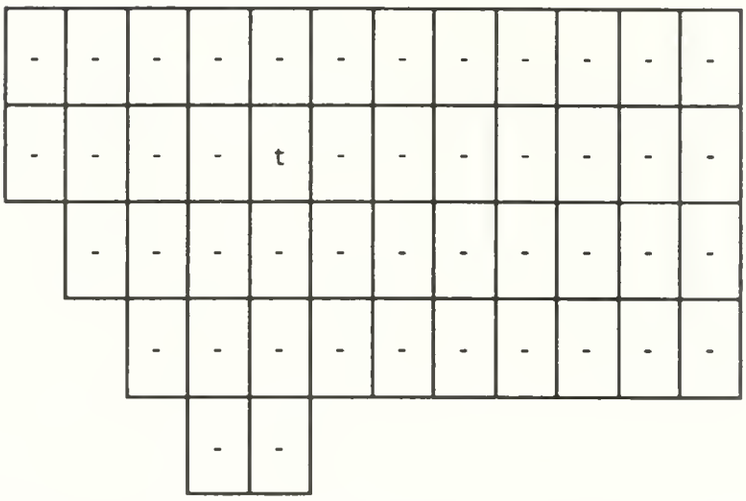
Pectoral Sandpiper
Calidris melanotos



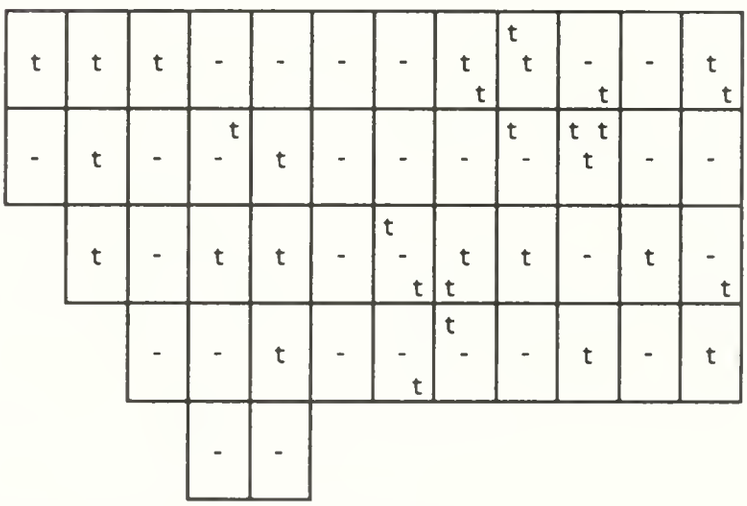
Dunlin
Calidris alpina



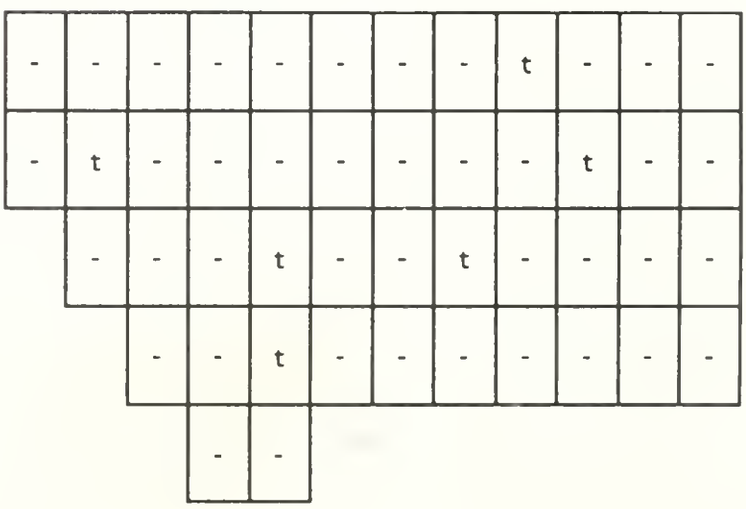
Curlew Sandpiper
Calidris ferruginea
LL 17; May 14, 1972;
Benton Lake
n=1



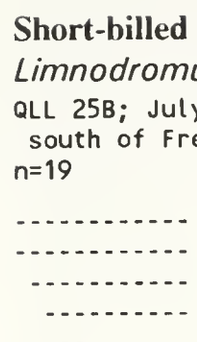
Stilt Sandpiper
Calidris himantopus

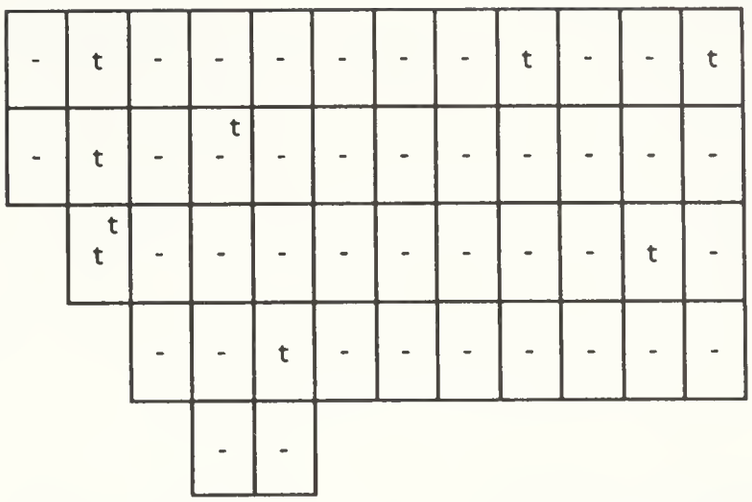


Buff-breasted Sandpiper
Tryngites subruficollis
LL 14; Fall, 1982;
Pablo Reservoir
n=8

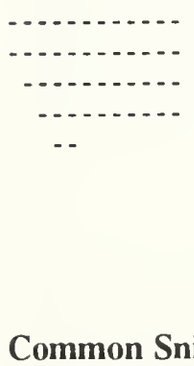


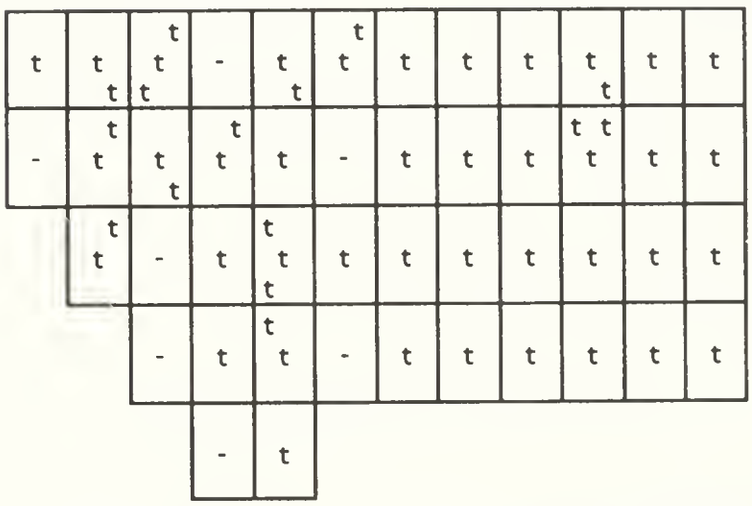
Short-billed Dowitcher
Limnodromus griseus
QLL 25B; July 23, 1988;
south of Frenchtown
n=19



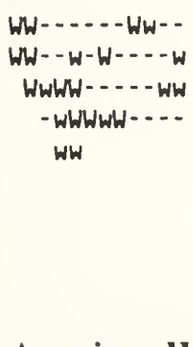


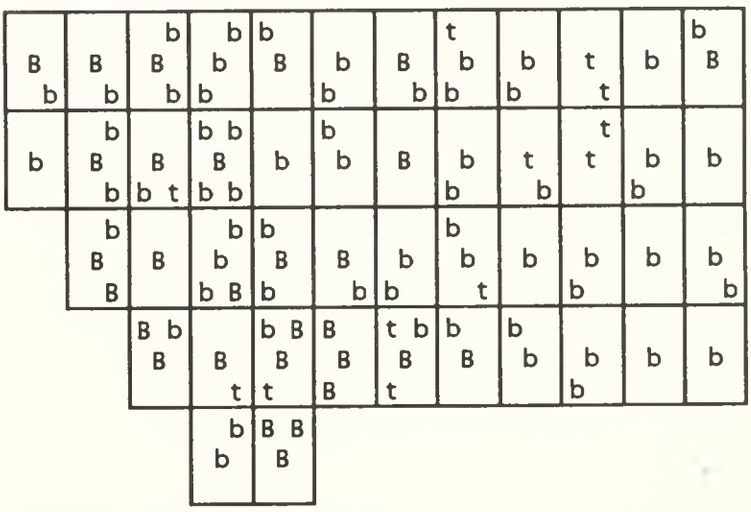
Long-billed Dowitcher
Limnodromus scolopaceus



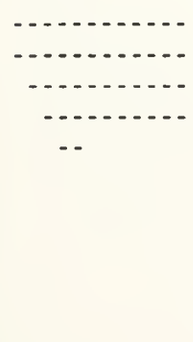


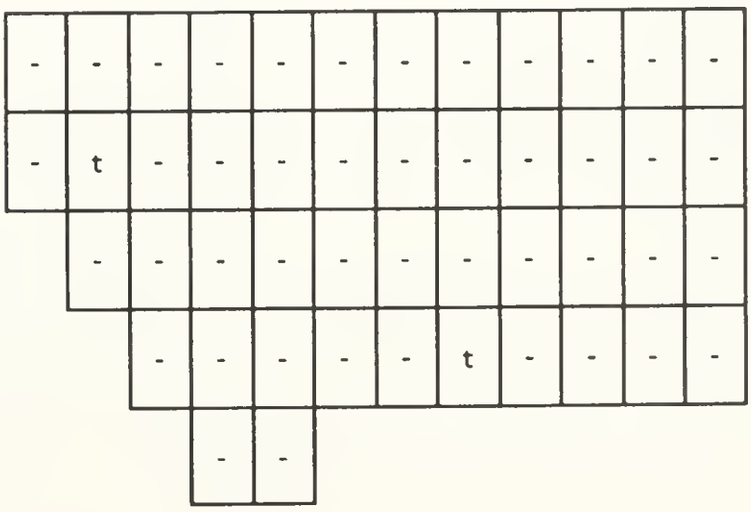
Common Snipe
Gallinago gallinago



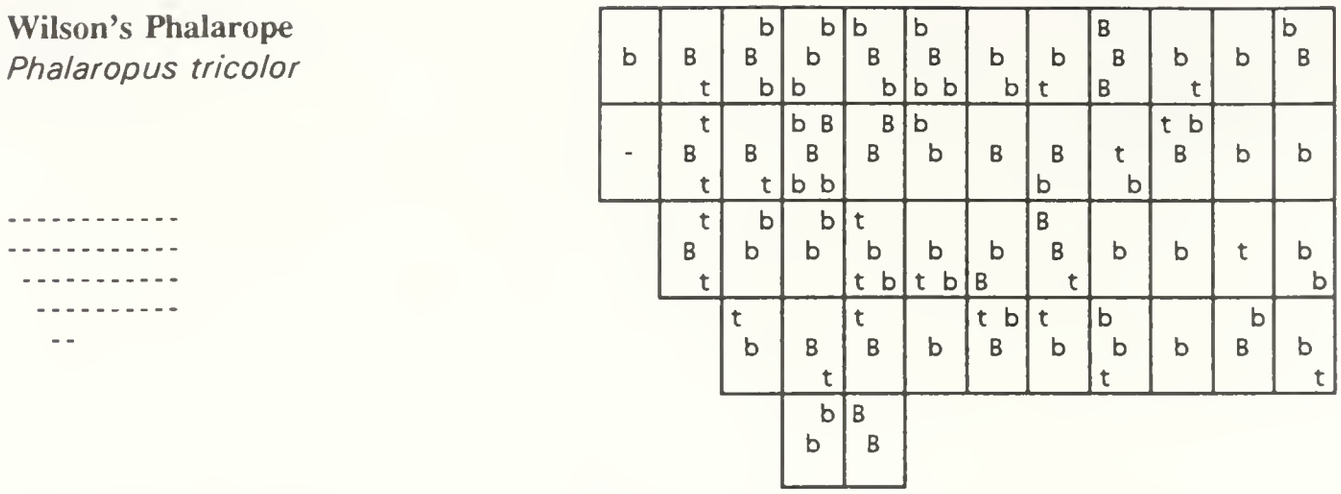


American Woodcock
Scolopax minor
LL 14; Oct. 1, 1983;
Ninemile Creek
n=2

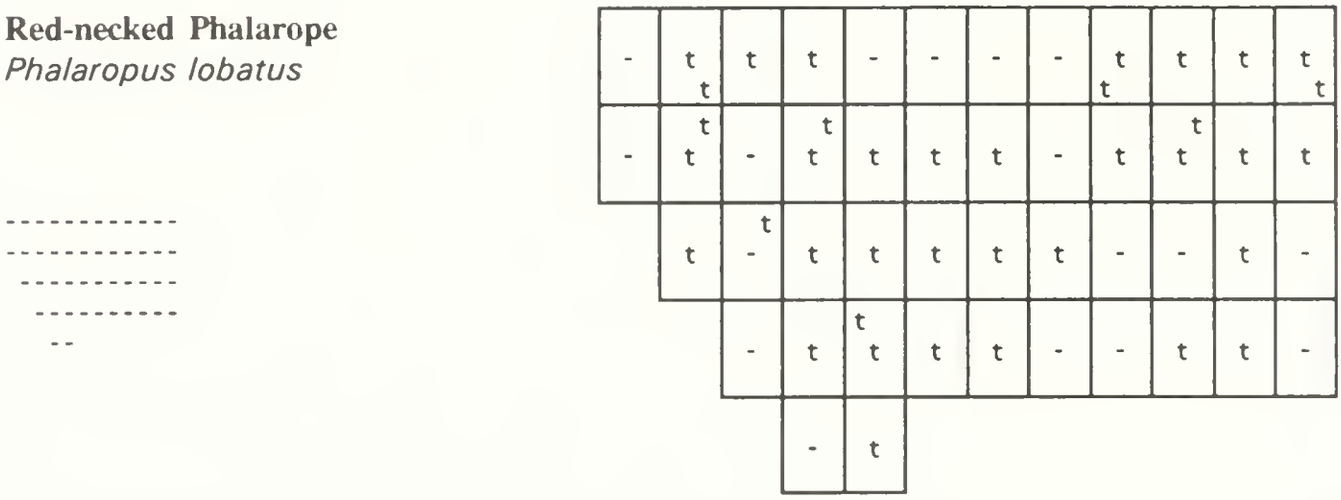




Wilson's Phalarope
Phalaropus tricolor

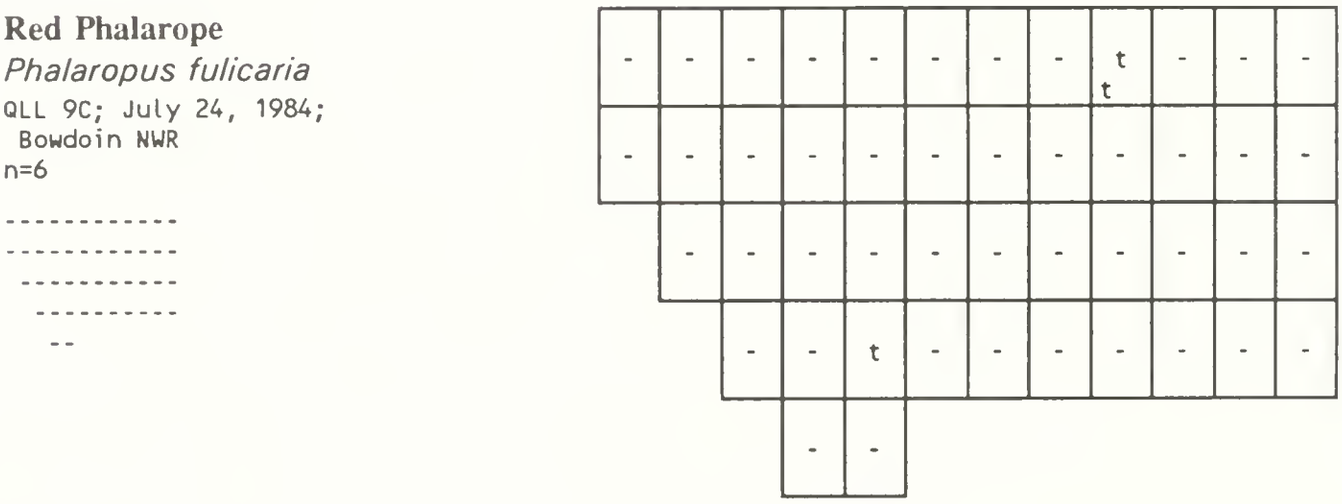


Red-necked Phalarope
Phalaropus lobatus



Red Phalarope
Phalaropus fulicaria

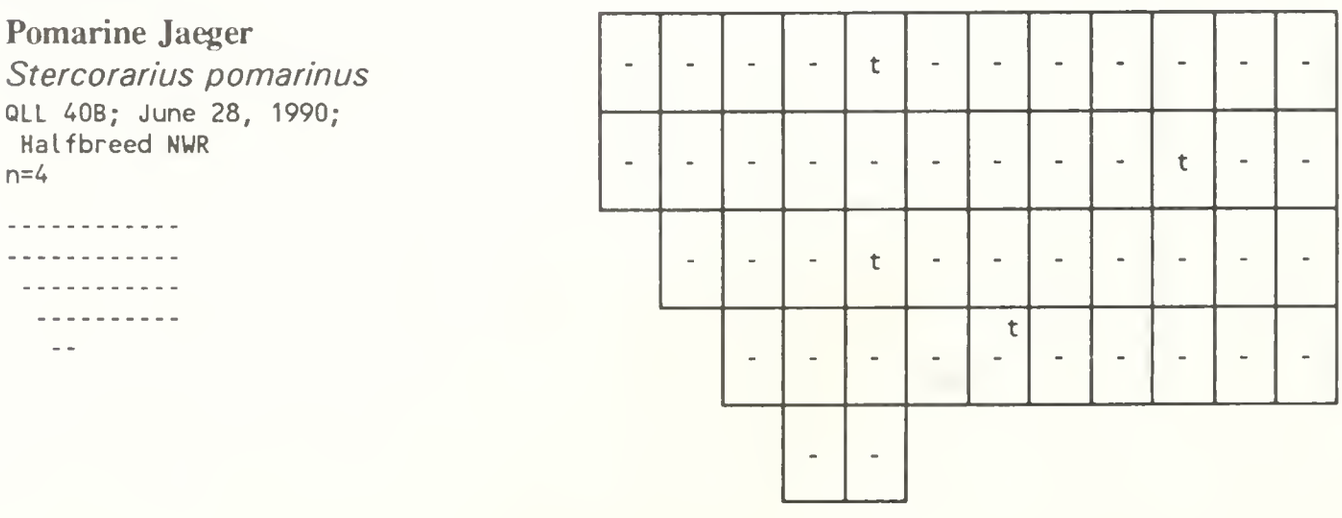
QLL 9C; July 24, 1984;
Bowdoin NWR
n=6



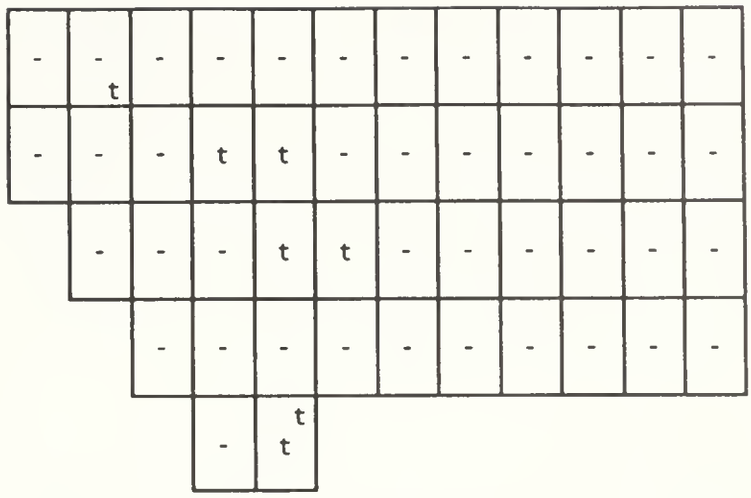
■ Laridae

Pomarine Jaeger
Stercorarius pomarinus

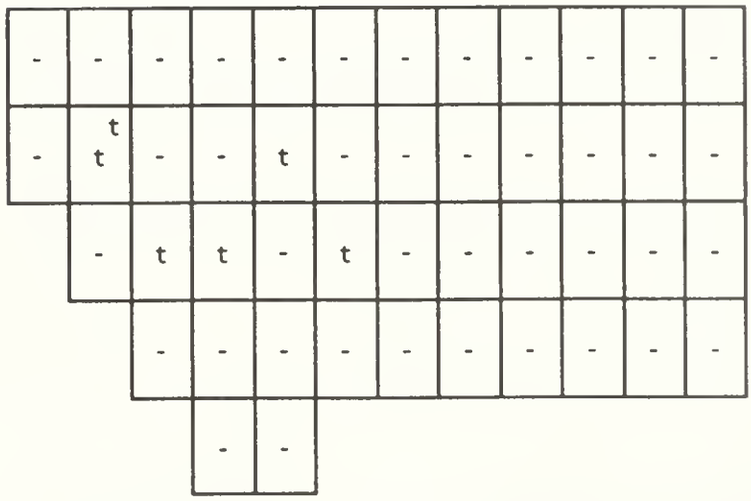
QLL 40B; June 28, 1990;
Halfbreed NWR
n=4



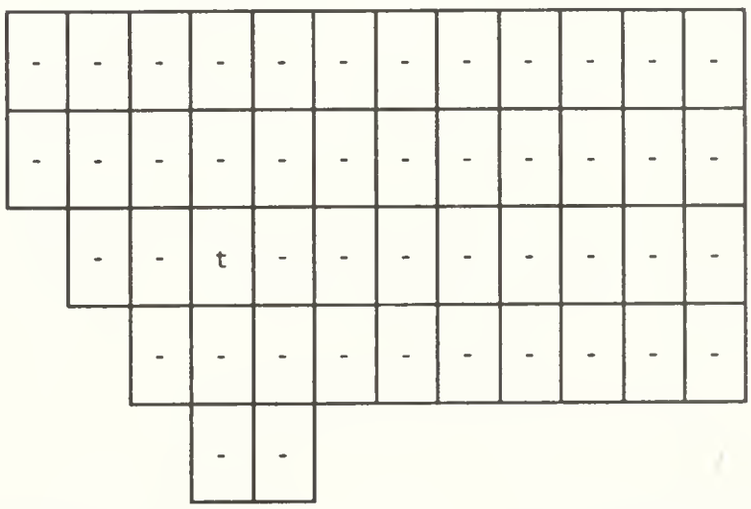
Parasitic Jaeger
Stercorarius parasiticus
QLL 2D; Nov. 15, 1987;
near Somers
n=13



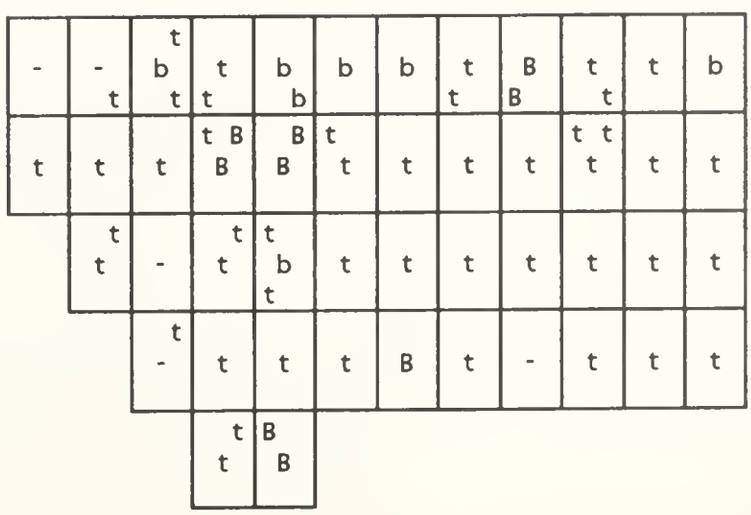
Long-tailed Jaeger
Stercorarius longicaudus
QLL 14B; Sept. 30, 1988; Flathead Lake
southwest of Wildhorse Island
n=6



Laughing Gull
Larus atricilla
LL 27; May 27, 1980;
Warm Springs
n=1



Franklin's Gull
Larus pipixcan
SI



Bonaparte's Gull
Larus philadelphia

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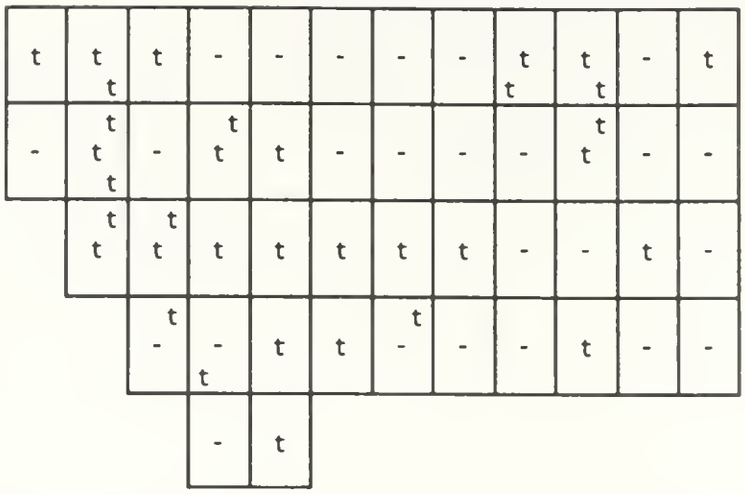

Mew Gull
Larus canus
LL 10; Oct. 26, 1977;
Ft. Peck
n=1

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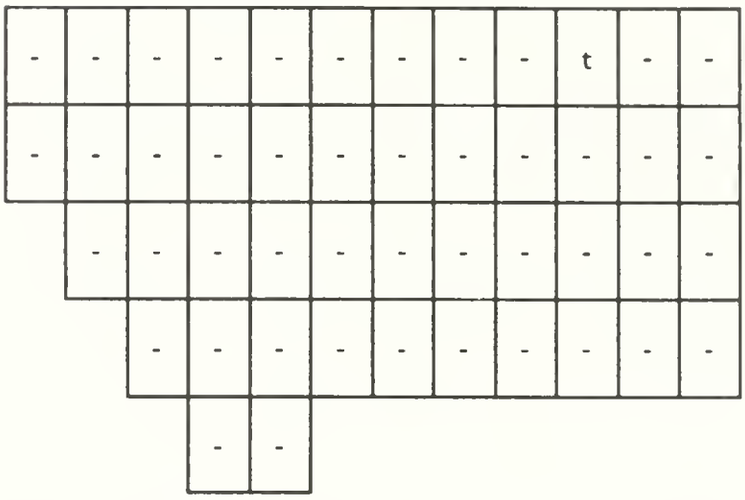

Ring-billed Gull
Larus delawarensis
SI

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wW------ww--
WW-------w--
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  --w--w----
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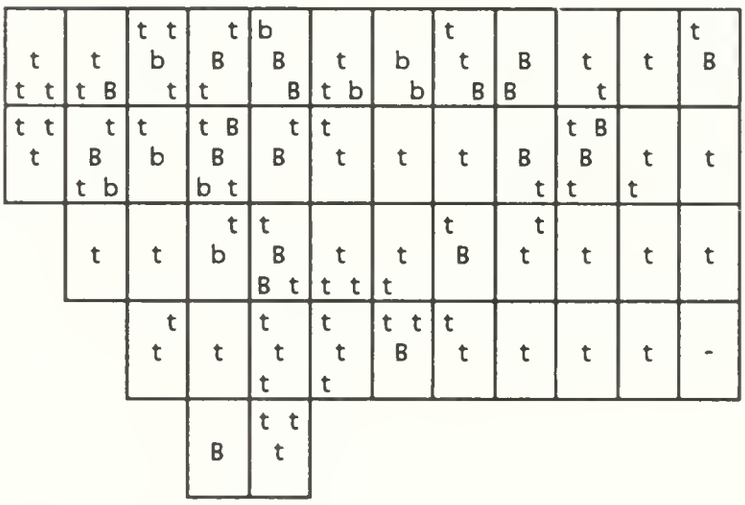

California Gull
Larus californicus
SI

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-Ww-w----w--
-w-------w--
 ---W-------
  --ww-w----
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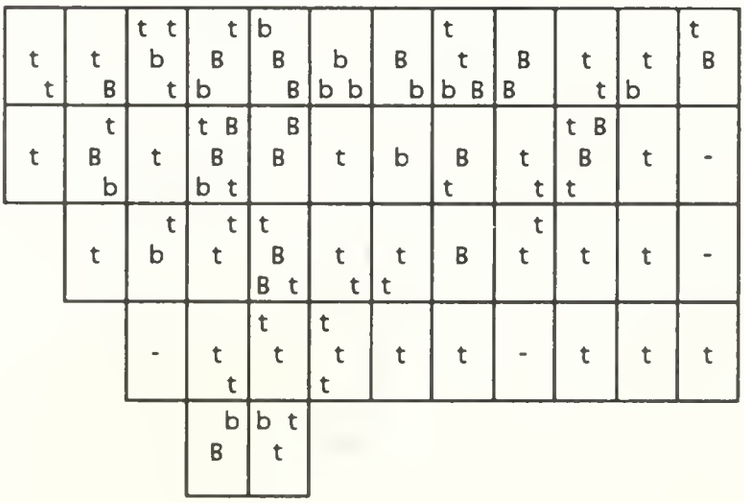

Herring Gull
Larus argentatus

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WW--W----W--
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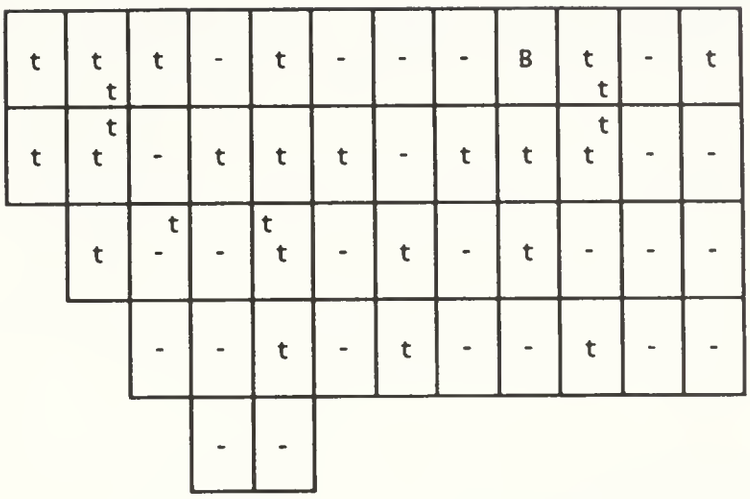

Thayer's Gull
Larus thayeri

QLL 10D; Nov. 16, 1991;
Ft. Peck
n=3

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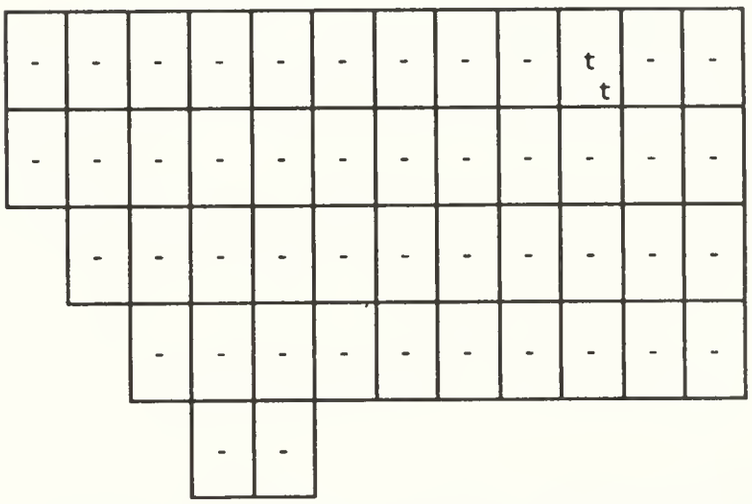

Iceland Gull
Larus glaucoides

LL 10; Dec. 14, 1979; Ft. Peck
n=2

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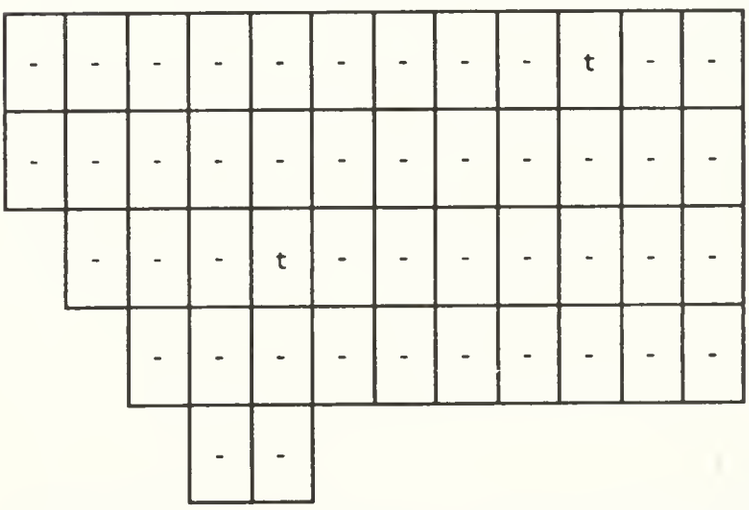

Glaucous Gull
Larus hyperboreus

LL 10; Jan., 1984; Ft. Peck
n=11

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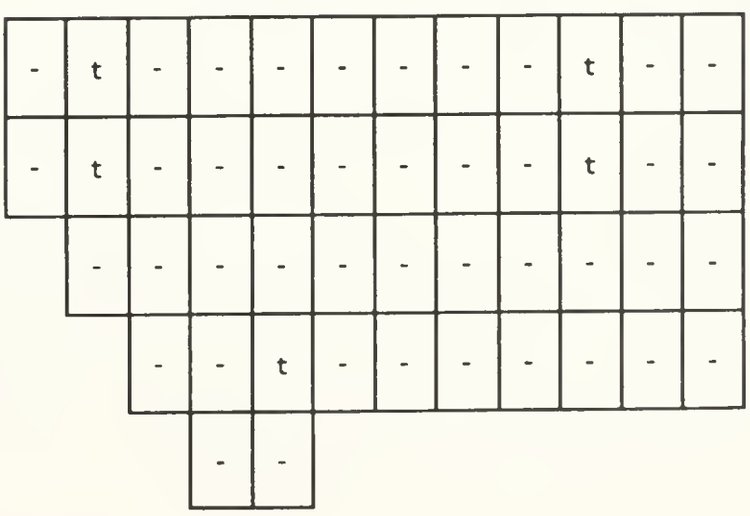

Glaucous-winged Gull

Larus glaucescens

QLL 14B; Jan. 26, 1991; Polson
n=2

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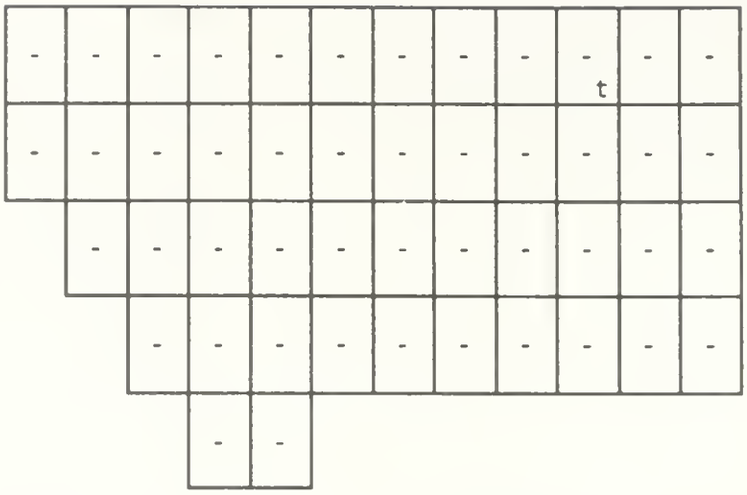

Great Black-backed Gull

Larus marinus

QLL 10D; Feb. 21, 1987; Missouri
River below Ft. Peck power plant
n=2

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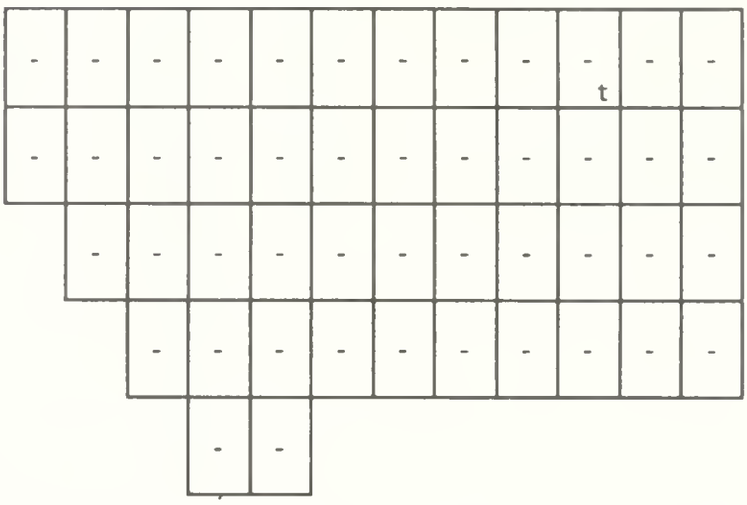

Black-legged Kittiwake

Rissa tridactyla

QLL 28A; Nov. 23, 1990;
Canyon Ferry Dam
n=4

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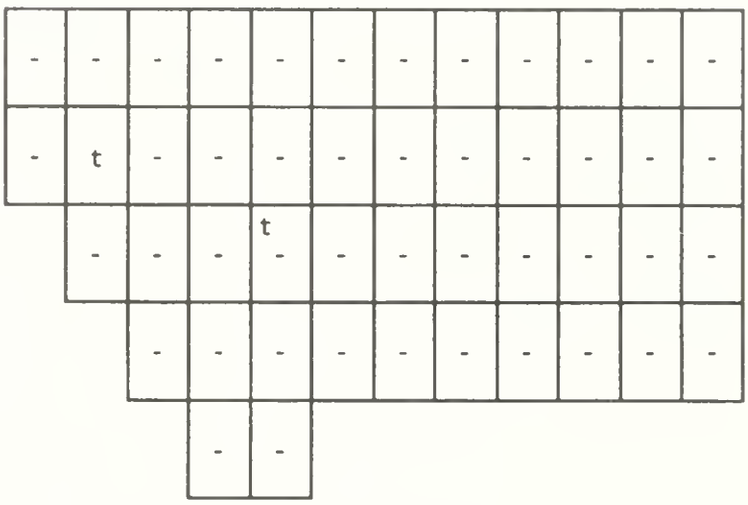

Sabine's Gull

Xema sabini

QLL 1D; Sept. 17, 1985;
Libby Dam
n=10

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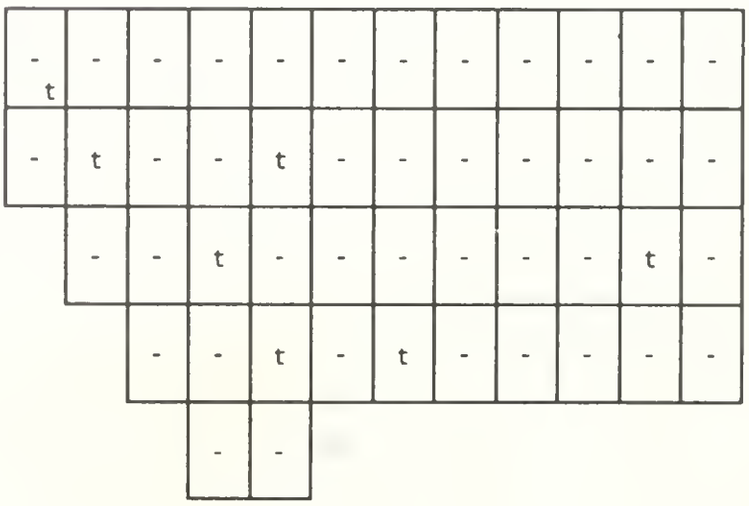
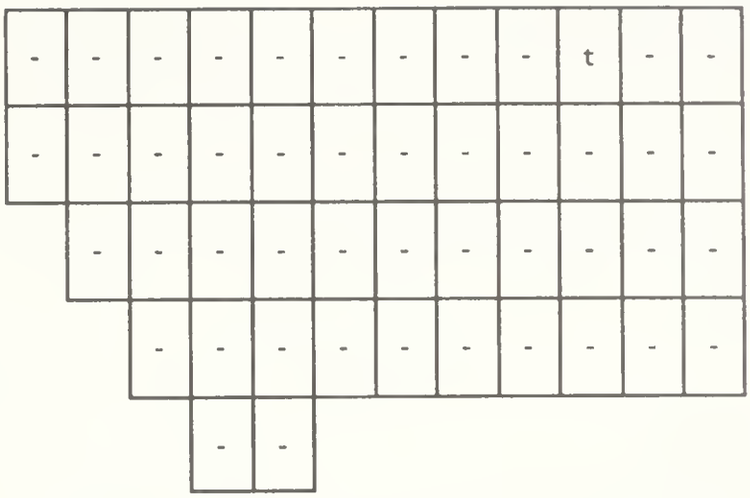
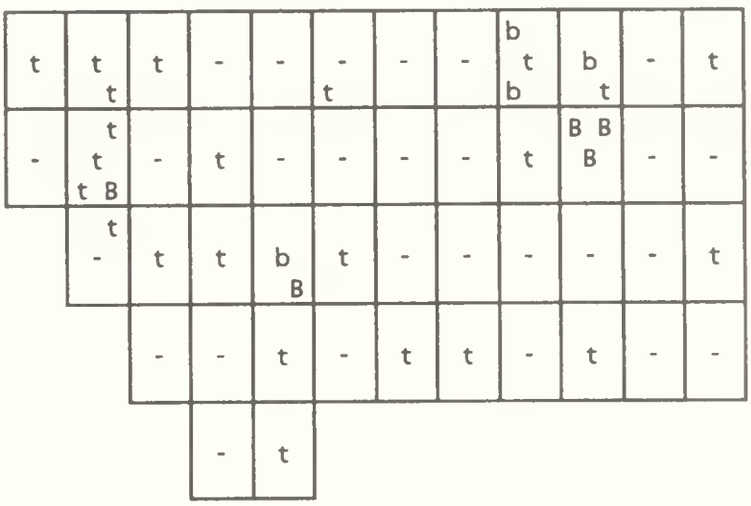


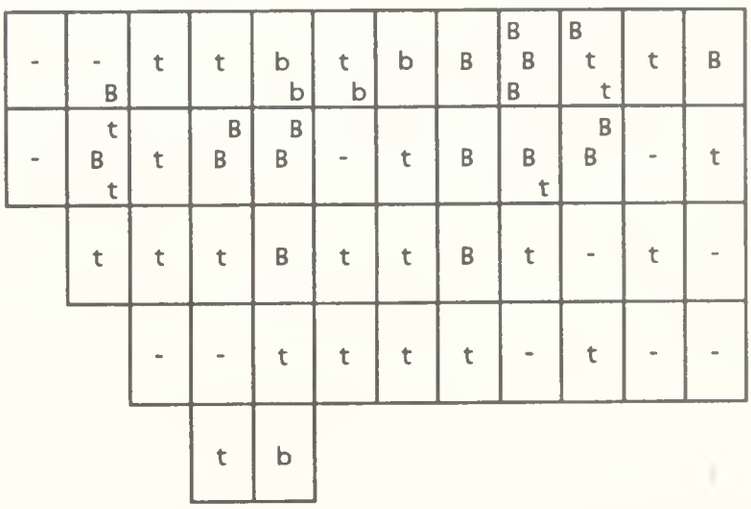
Ivory Gull
Pagophila eburnea
LL 10; May 25, 1974;
Ft. Peck
n=1



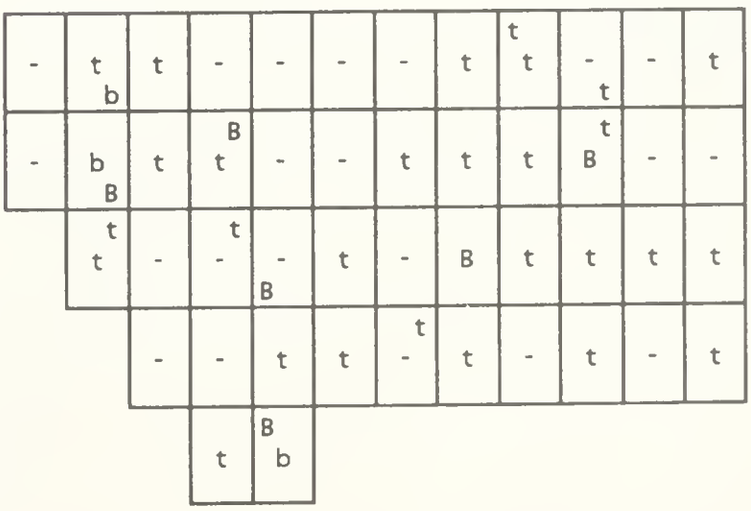
Caspian Tern
Sterna caspia
SI



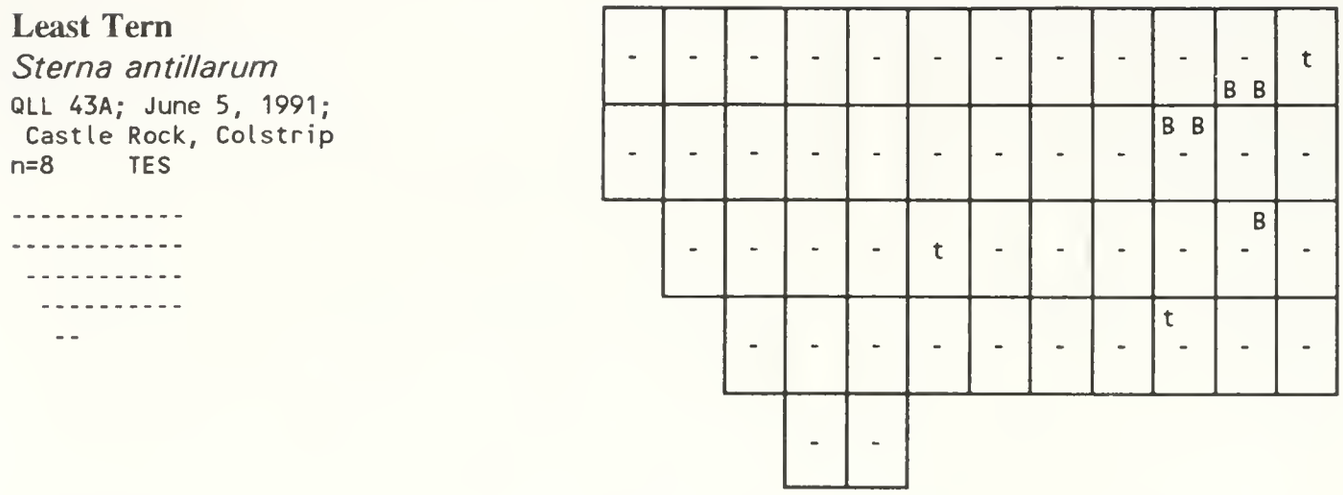
Common Tern
Sterna hirundo
SI



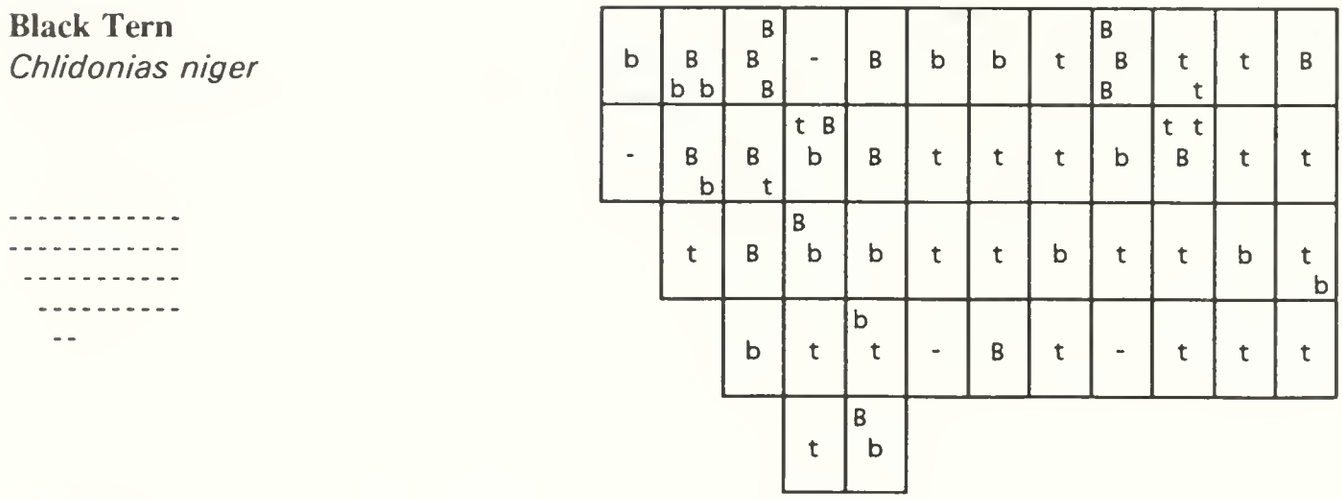
Forster's Tern
Sterna forsteri
SI



Least Tern
Sterna antillarum
QLL 43A; June 5, 1991;
Castle Rock, Colstrip
n=8 TES

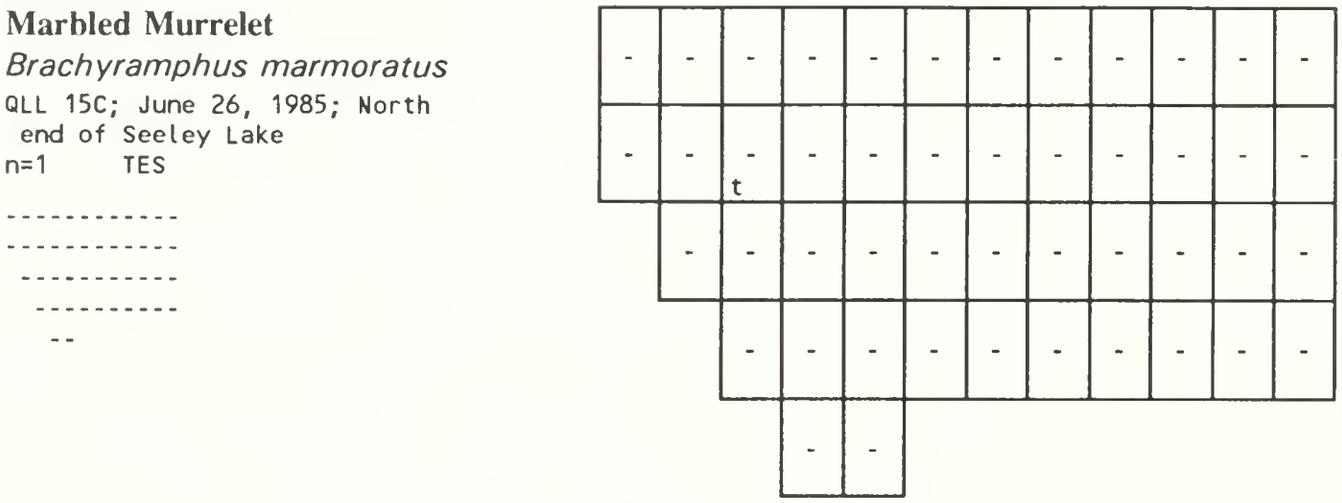


Black Tern
Chlidonias niger

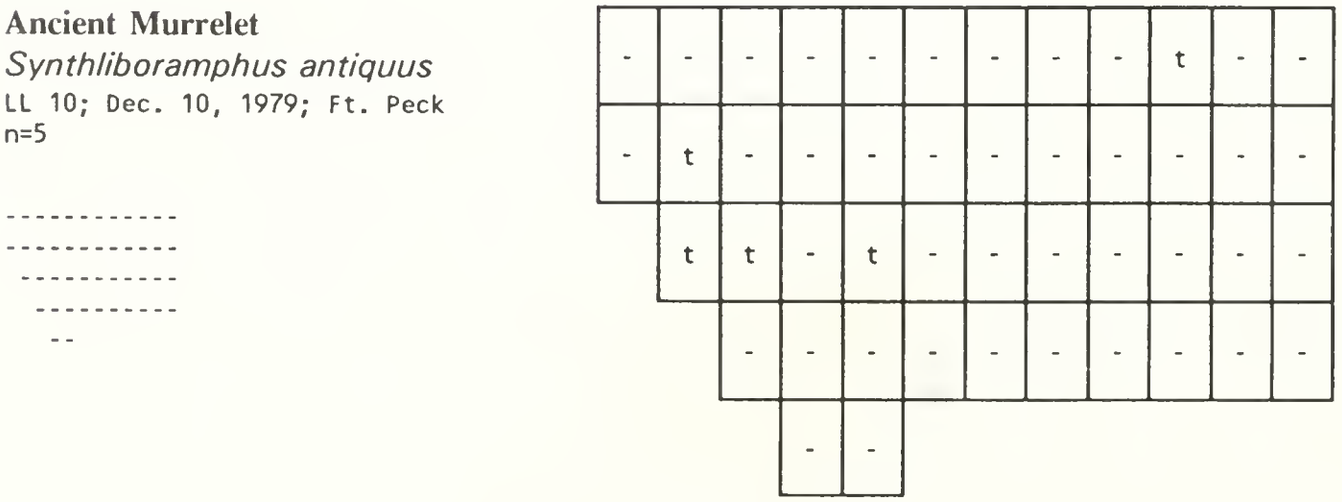


■ Alcidae

Marbled Murrelet
Brachyramphus marmoratus
QLL 15C; June 26, 1985; North
end of Seeley Lake
n=1 TES



Ancient Murrelet
Synthliboramphus antiquus
LL 10; Dec. 10, 1979; Ft. Peck
n=5



Rock Dove
Columba livia
(introduced)

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WWWWWWWWWWW
WWWWWWWWWWW
 WWWW-----ww
  -WWWWW---W
   w-
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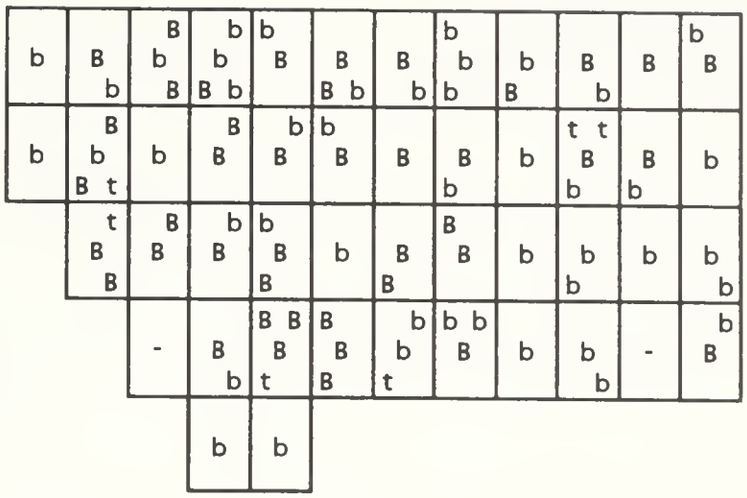

Band-tailed Pigeon
Columba fasciata
QLL 15A; Sept. 25, 1991;
Spotted Bear Ranger Station
n=18

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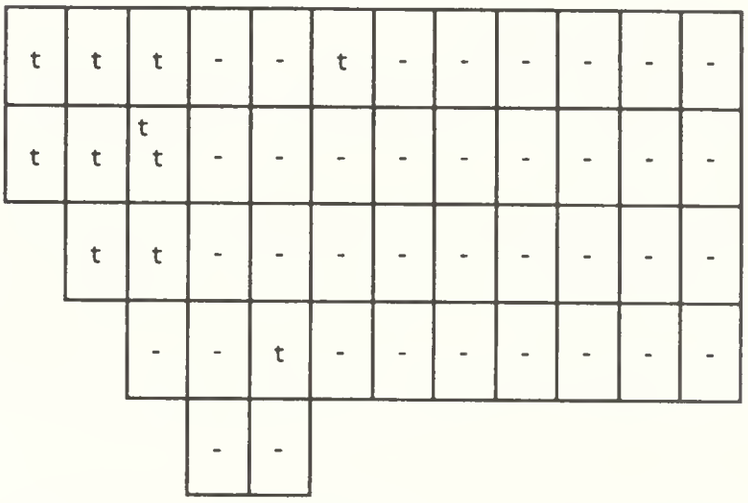

White-winged Dove
Zenaida asiatica
LL 17; June 27, 1979;
Benton Lake NWR
n=1

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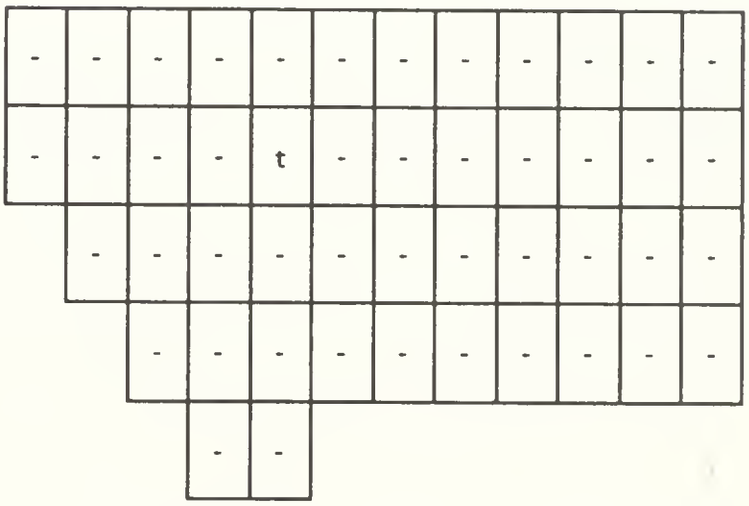

Mourning Dove
Zenaida macroura

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WW---W--W---
-w----------
 W-W--------
  --WW-w----
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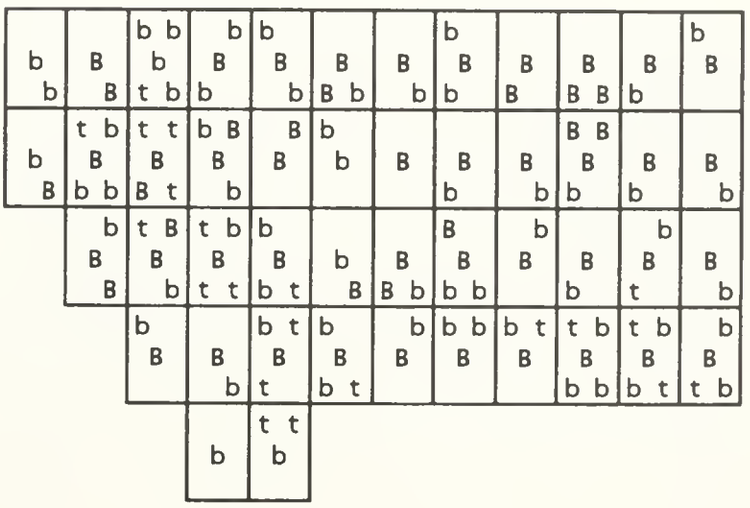
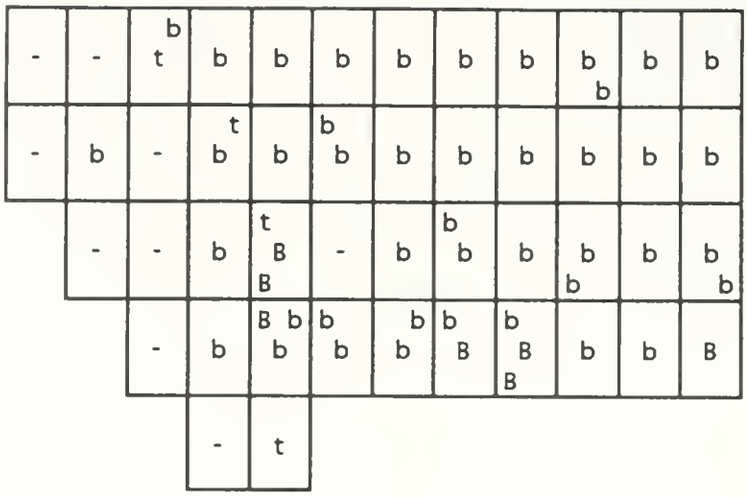
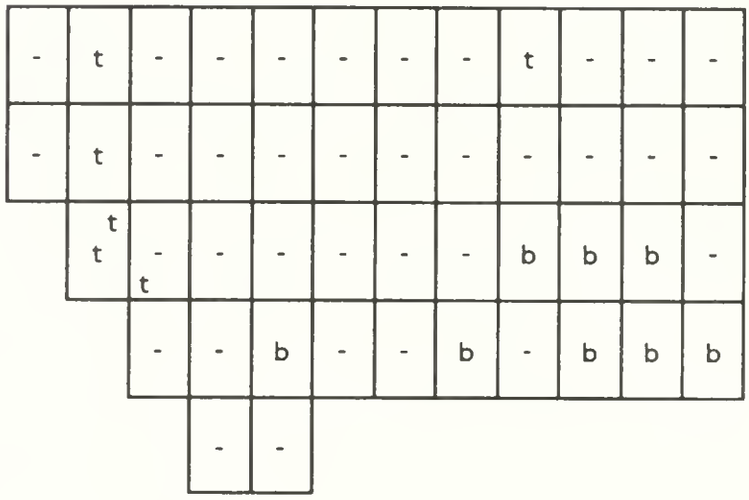


◘ CUCULIFORMES ■ Cuculidae

Black-billed Cuckoo
Coccyzus erythropthalmus



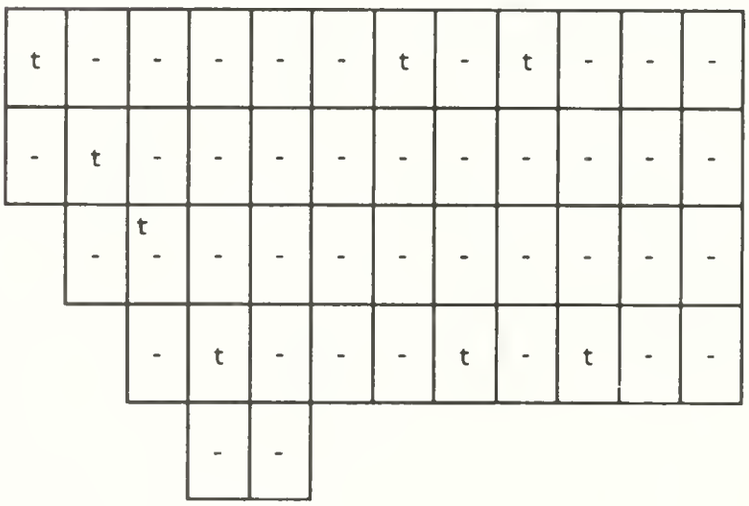
Yellow-billed Cuckoo
Coccyzus americanus



◘ STRIGIFORMES ■ Tytonidae

Common Barn-owl
Tyto alba

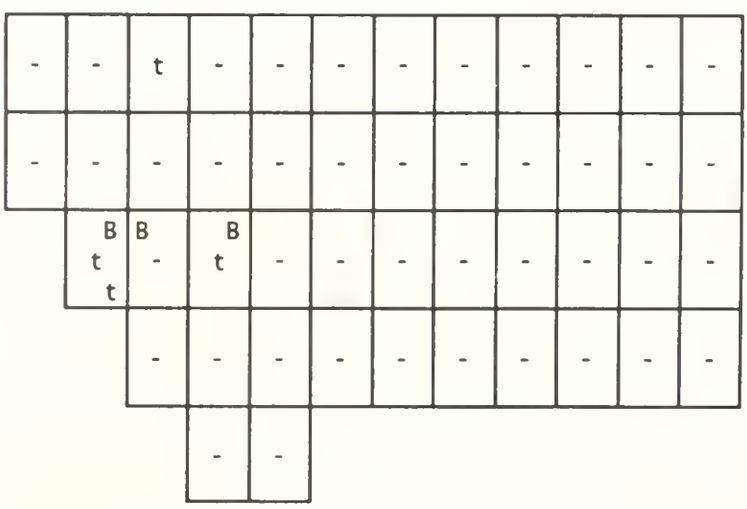
QLL 26A; July 7, 1991; Rattlesnake drainage north of Missoula
n=10



■ Strigidae

Flammulated Owl
Otus flammeolus

QLL 25D; July 29, 1991; Blodgett Canyon
n=9 TES



Eastern Screech-owl

Otus asio

QLL 41B; Dec. 12, 1988; Yellowstone River north of Huntley
n=13 SI

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  -----Ww---
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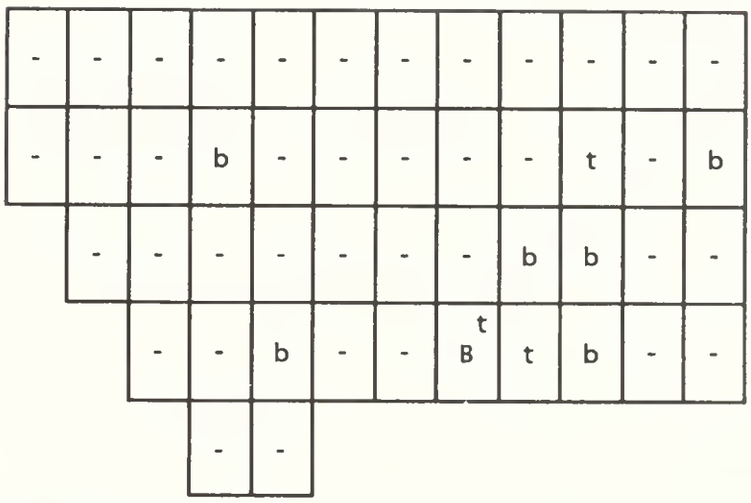

Western Screech-owl

Otus kennicottii

SI

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 W----------
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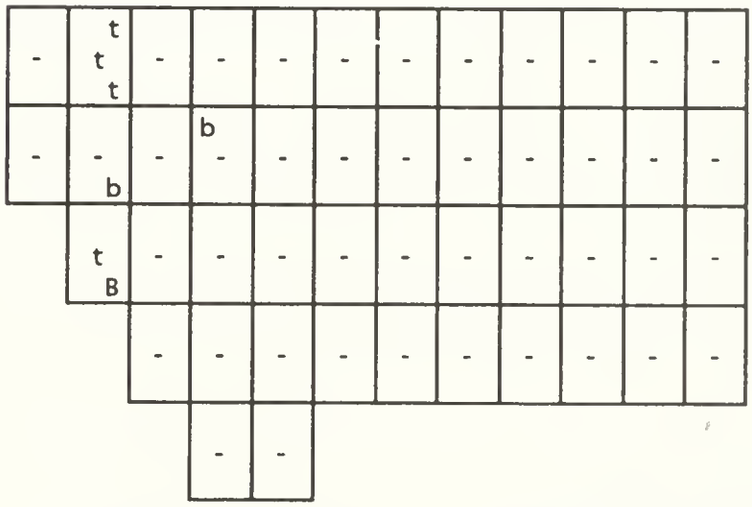

Great Horned Owl

Bubo virginianus

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WWWWWW-WWWWW
WWWWWWWWWWWW
 WWWW-WW-WWW
  -WWWWWWWW-
   -W
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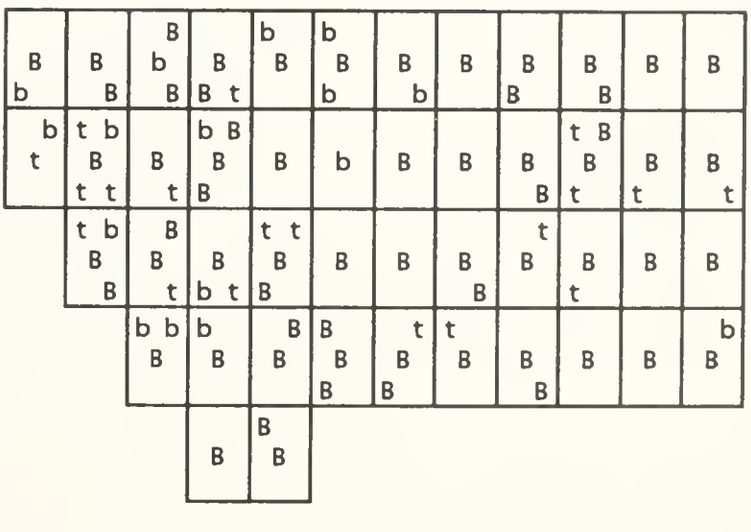

Snowy Owl
Nyctea scandiaca

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Ww-WWWWWWWW
-W-WWWWWWWW
 W--WWWWWWW-
  W-W-WWW--W
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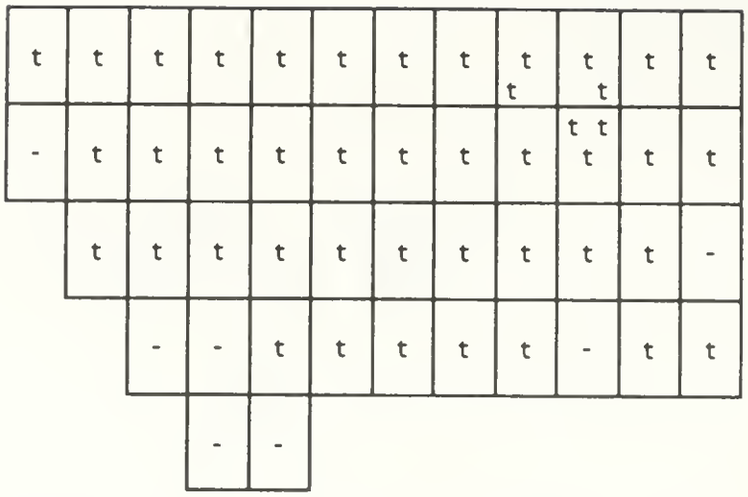

Northern Hawk-owl
Surnia ulula
LL 14; Dec. 20, 1981;
Pablo Reservoir
n=12

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-W----------
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  --W-------
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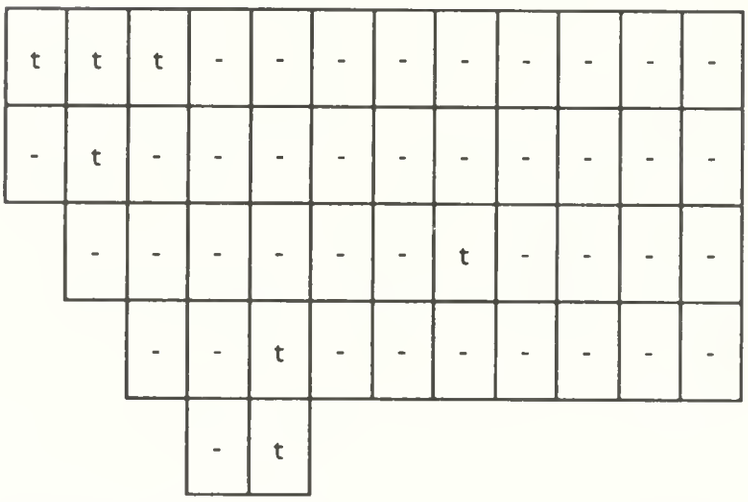

Northern Pygmy-owl
Glaucidium gnoma

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WWW---------
WWWW--------
 WWWW-W-----
  --WW------
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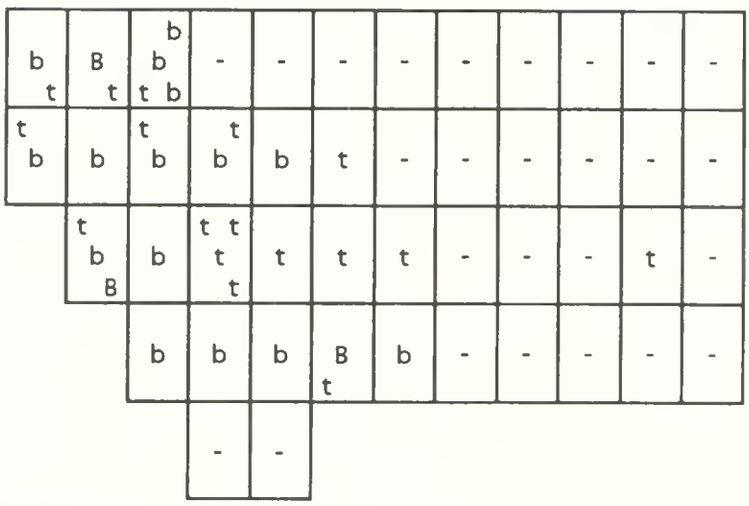

Burrowing Owl
Speotyto cunicularia
(formerly genus Athene)
TES

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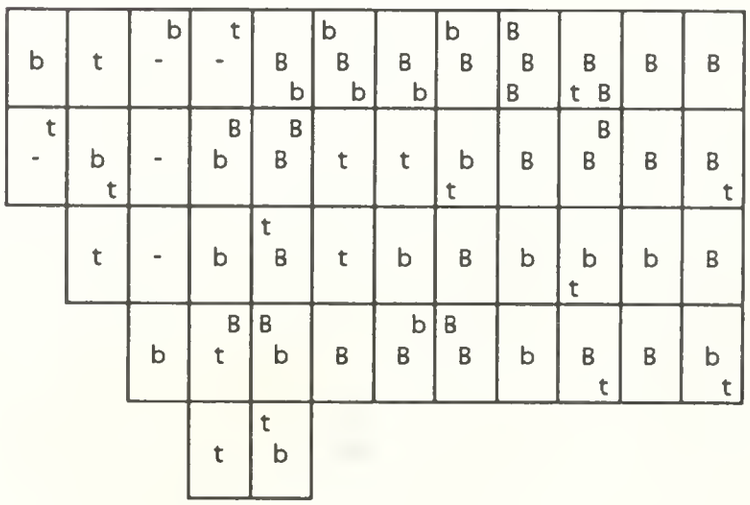

Barred Owl
Strix varia

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WW----------
WWW---------
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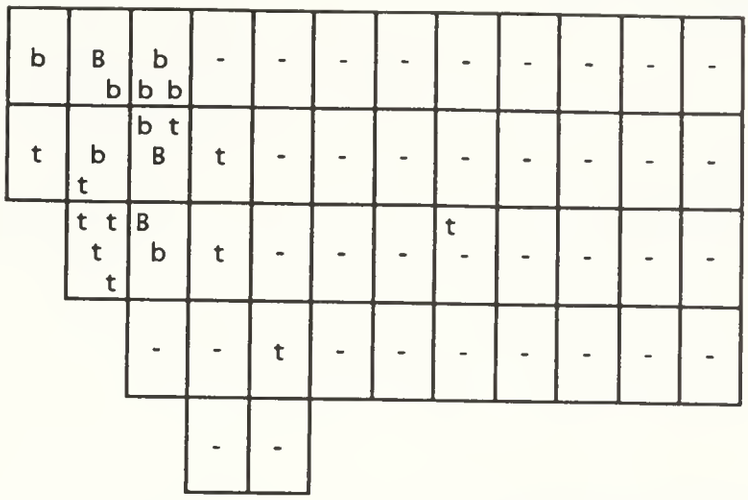

Great Gray Owl
Strix nebulosa
TES

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WWW---------
--W---------
 W--W-------
  --W-------
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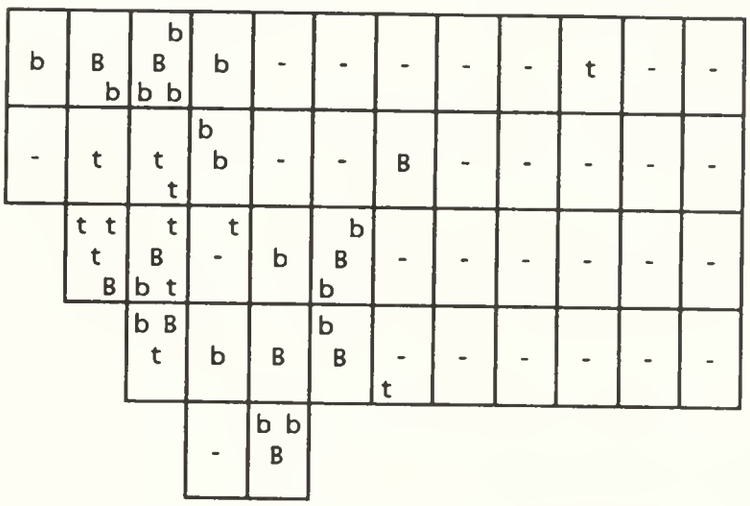

Long-eared Owl
Asio otus

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ww---W--W--w
-W-w--------
 W-W------w-
  --Ww-wWWw-
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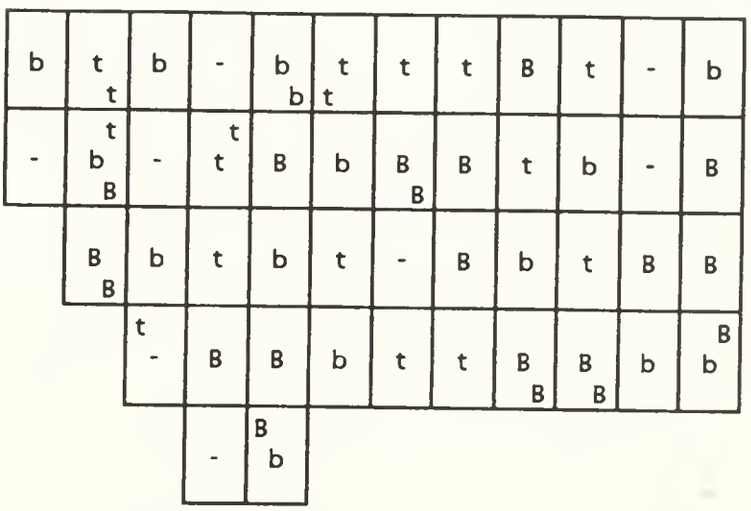

Short-eared Owl
Asio flammeus

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-W-WWW-WWW-w
-W-WW---WW--
 WW-WWWWWWWW
  --W-WW-Ww-
   -w
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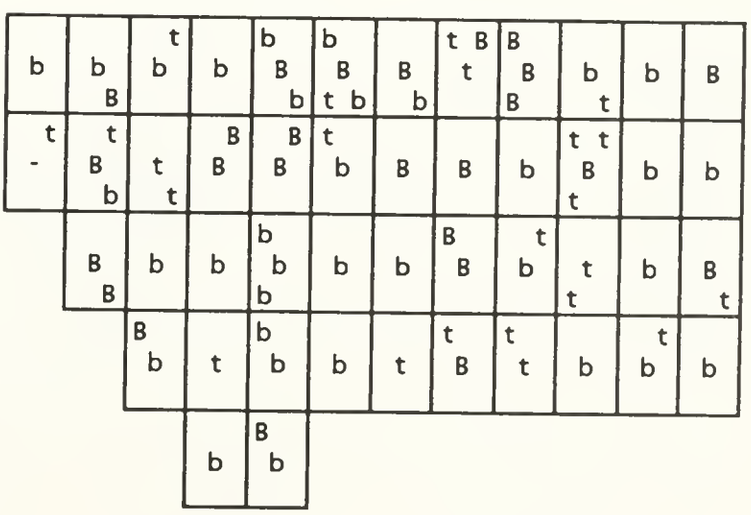
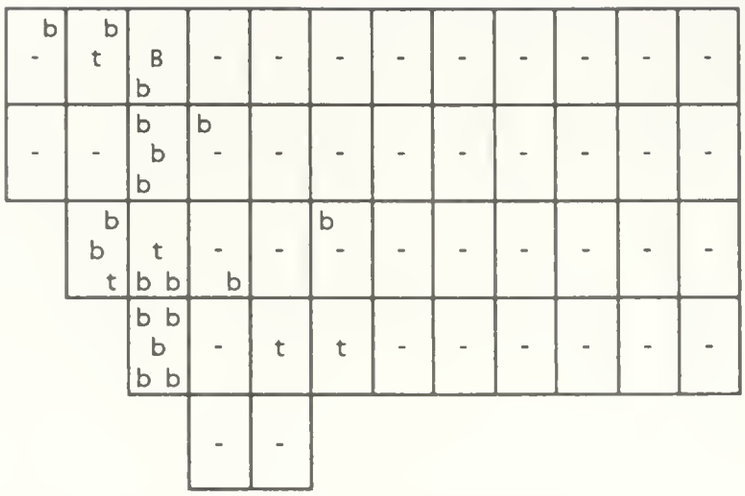
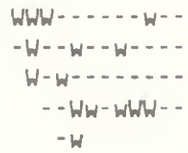
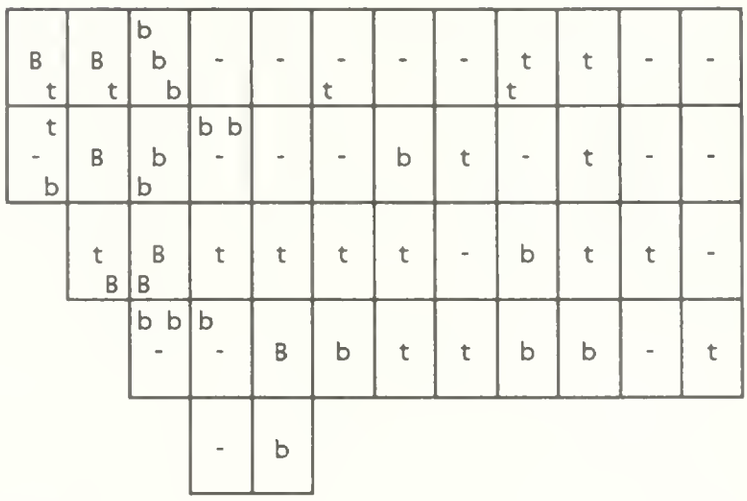


Boreal Owl
Aegolius funereus
TES



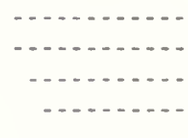
Northern Saw-whet Owl
Aegolius acadicus

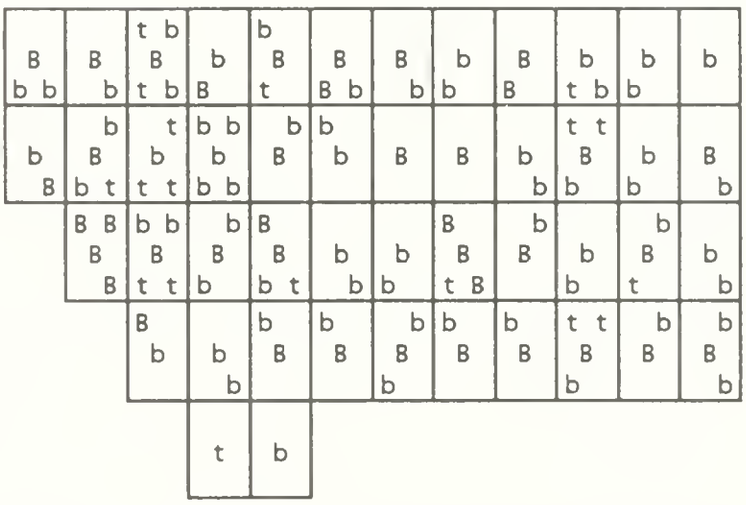




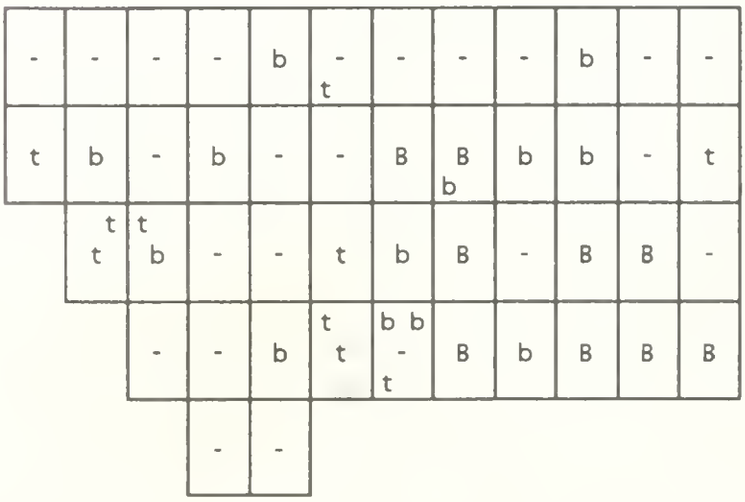
CAPRIMULGIFORMES ■ Caprimulgidae

Common Nighthawk
Chordeiles minor

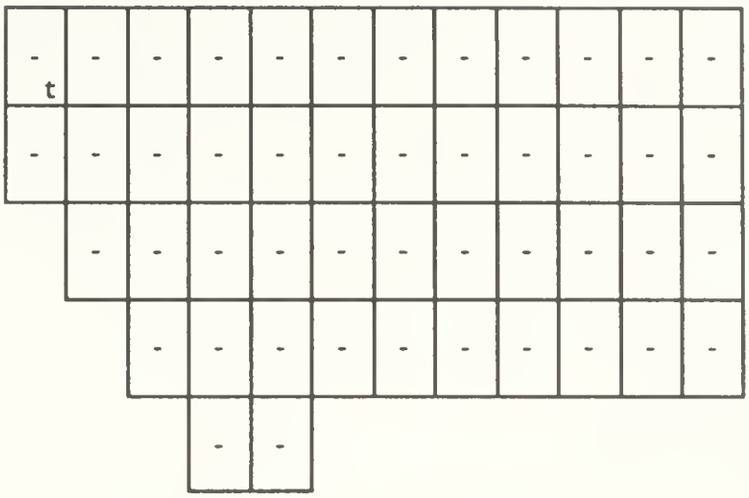




Common Poorwill
Phalaenoptilus nuttallii

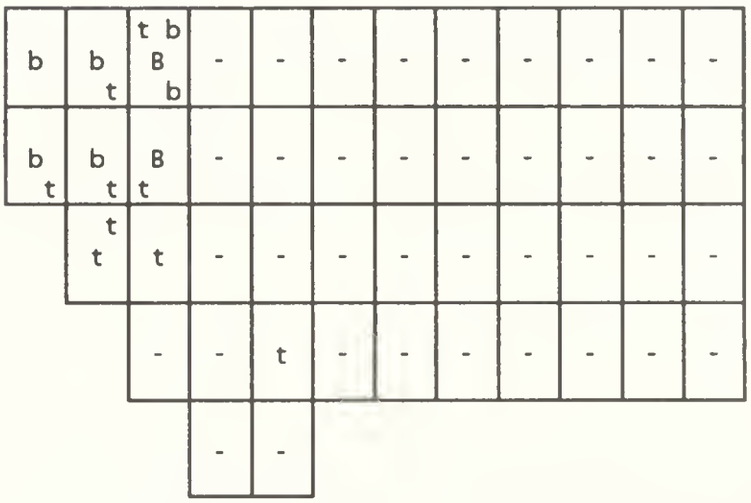


Whip-poor-will
Caprimulgus vociferus
QLL 1D; June 28, 1990;
Libby Dam
n=1

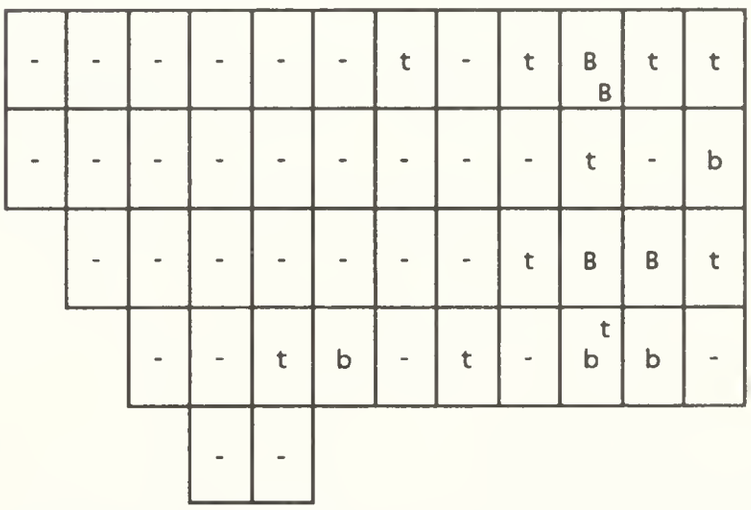


APODIFORMES ■ Apodidae

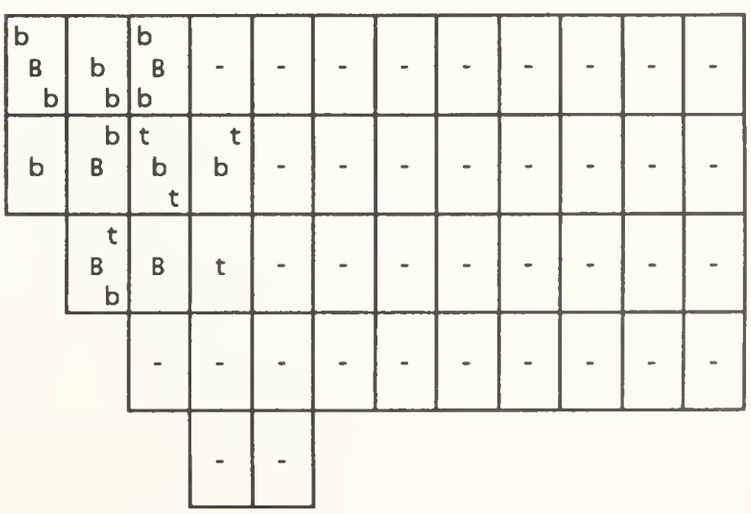
Black Swift
Cypseloides niger



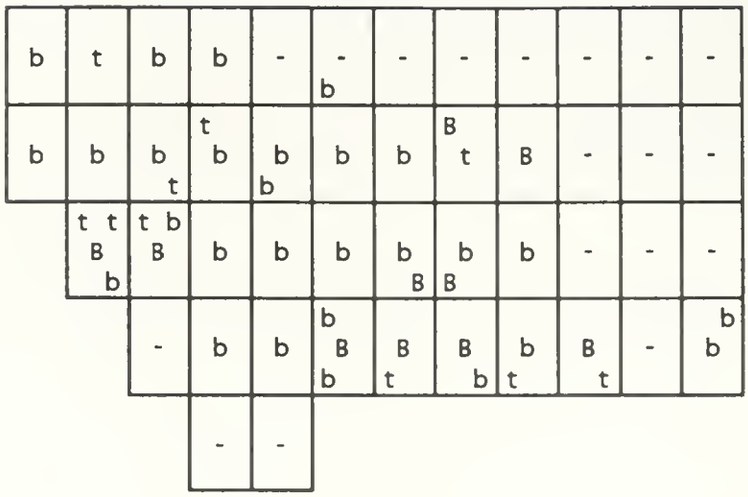
Chimney Swift
Chaetura pelagica



Vaux's Swift
Chaetura vauxi



White-throated Swift
Aeronautes saxatalis



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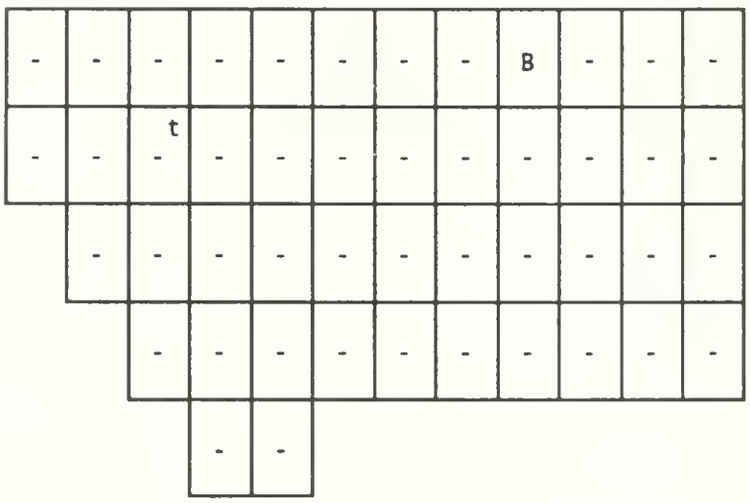
■ **Trochilidae**

Ruby-throated Hummingbird
Archilochus colubris
QLL 15B; June 10, 1988; Webb Lake (Spotted Bear River)
n=7



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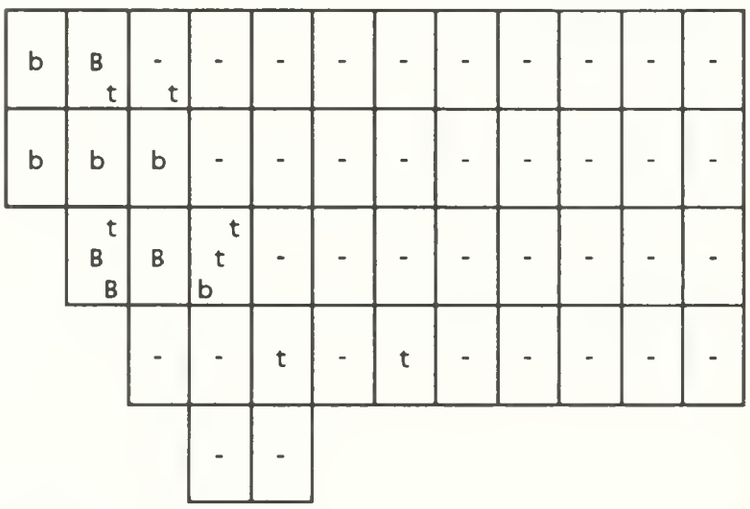
Black-chinned Hummingbird
Archilochus alexandri



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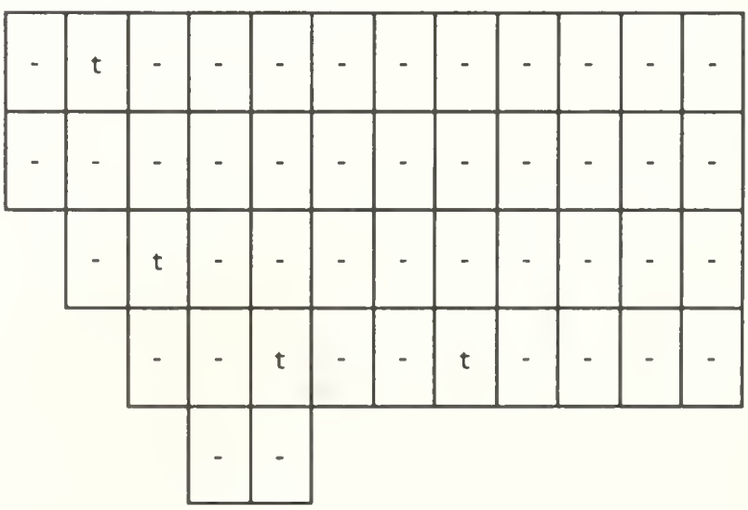
Anna's Hummingbird
Calypte anna
LL 41; Jan. 23, 1983; Billings
n=5



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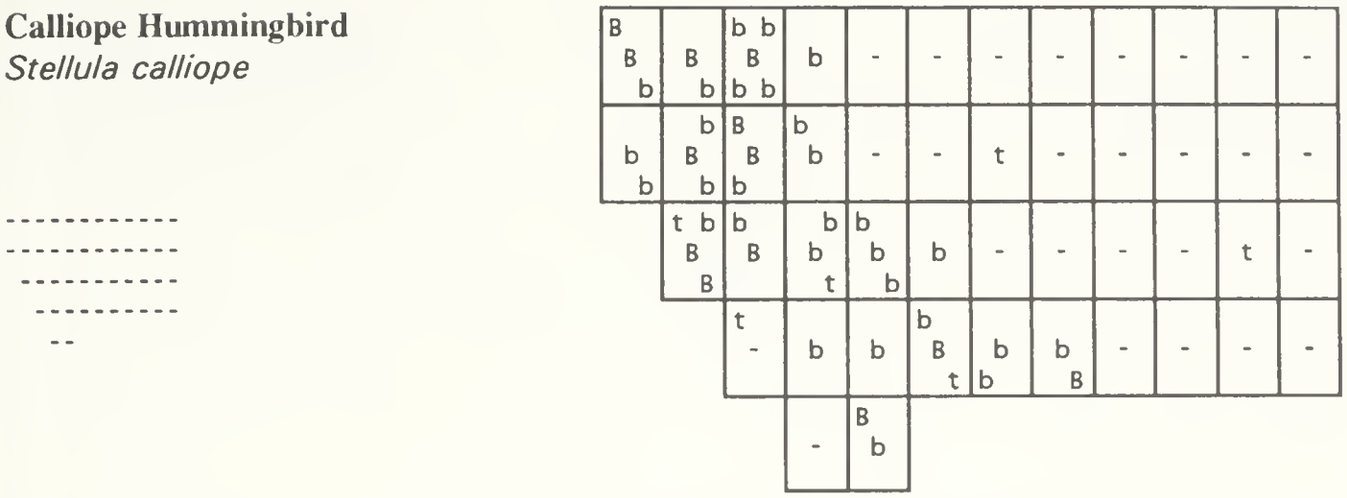
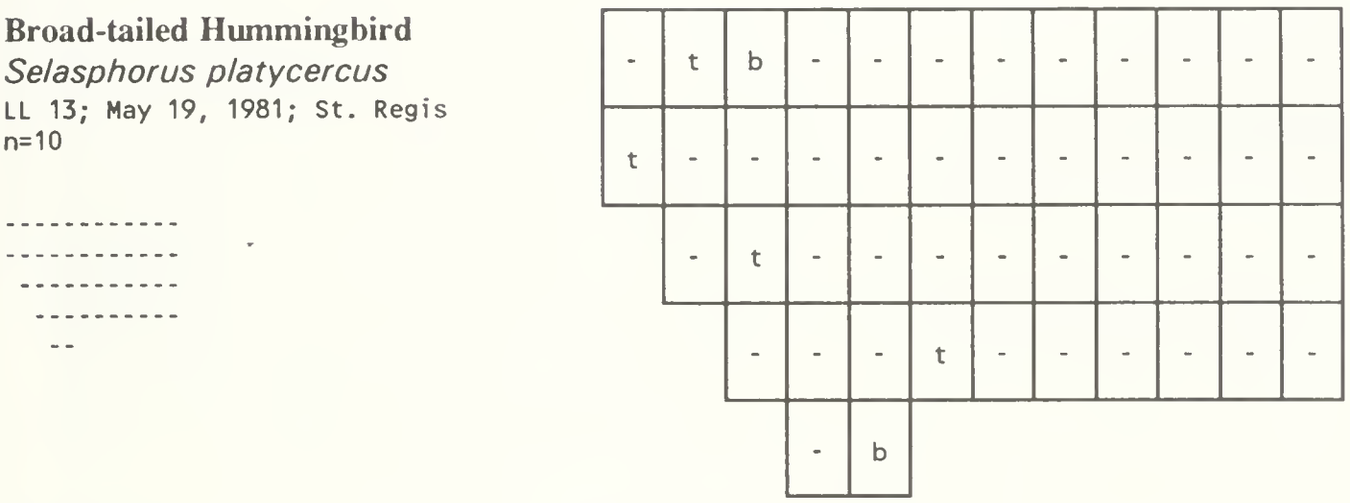
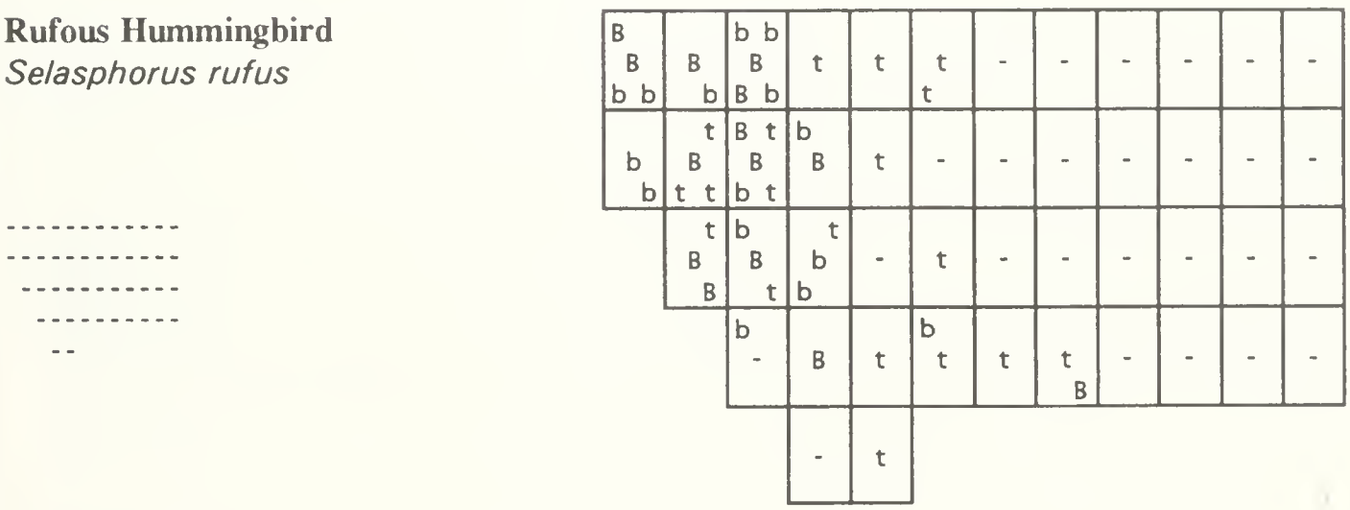
Calliope Hummingbird
Stellula calliope



Broad-tailed Hummingbird
Selasphorus platycercus
LL 13; May 19, 1981; St. Regis
n=10

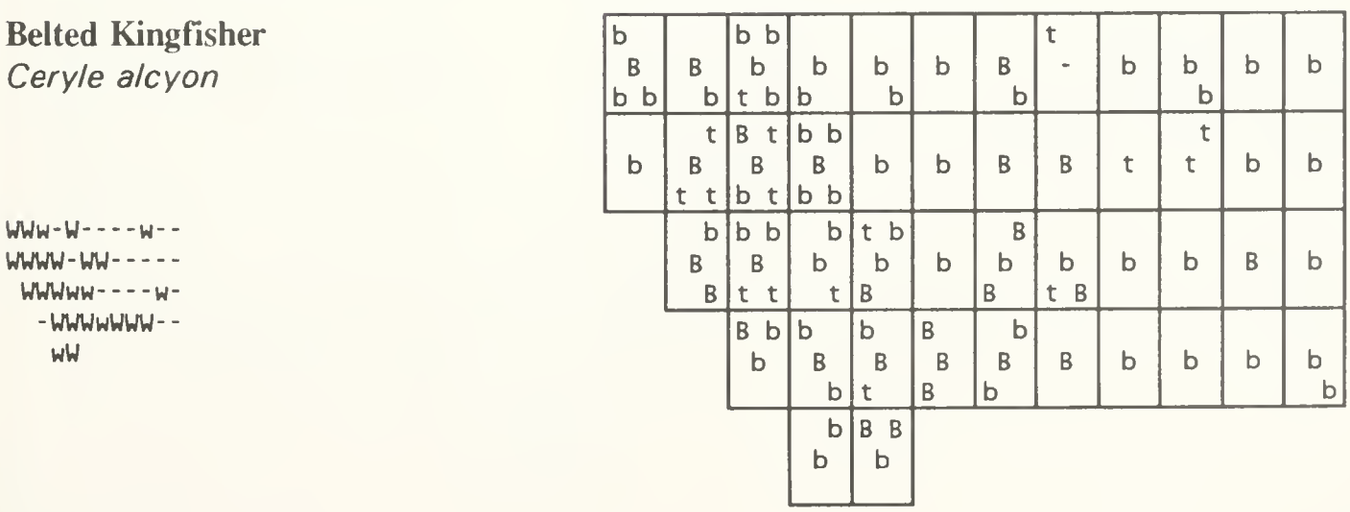


Rufous Hummingbird
Selasphorus rufus

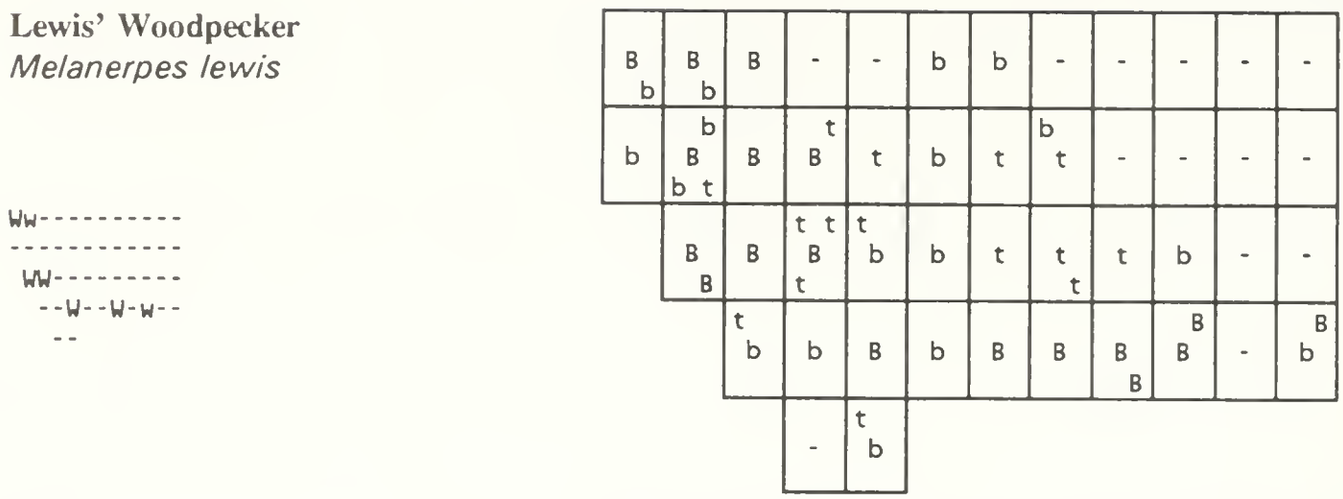


CORACIIFORMES ■ Alcedinidae

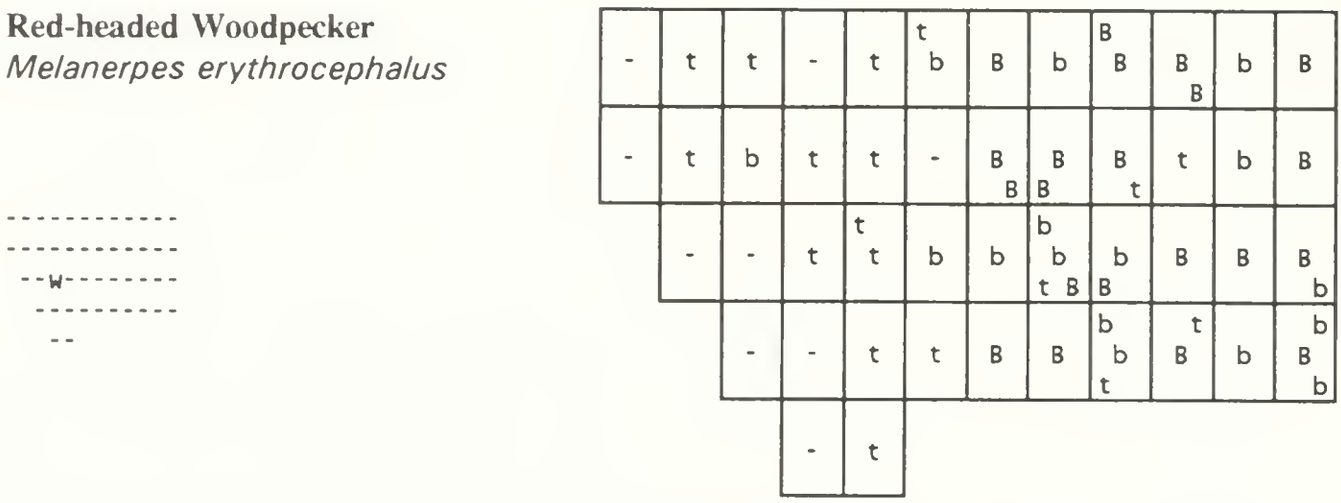
Belted Kingfisher
Ceryle alcyon



Lewis' Woodpecker
Melanerpes lewis

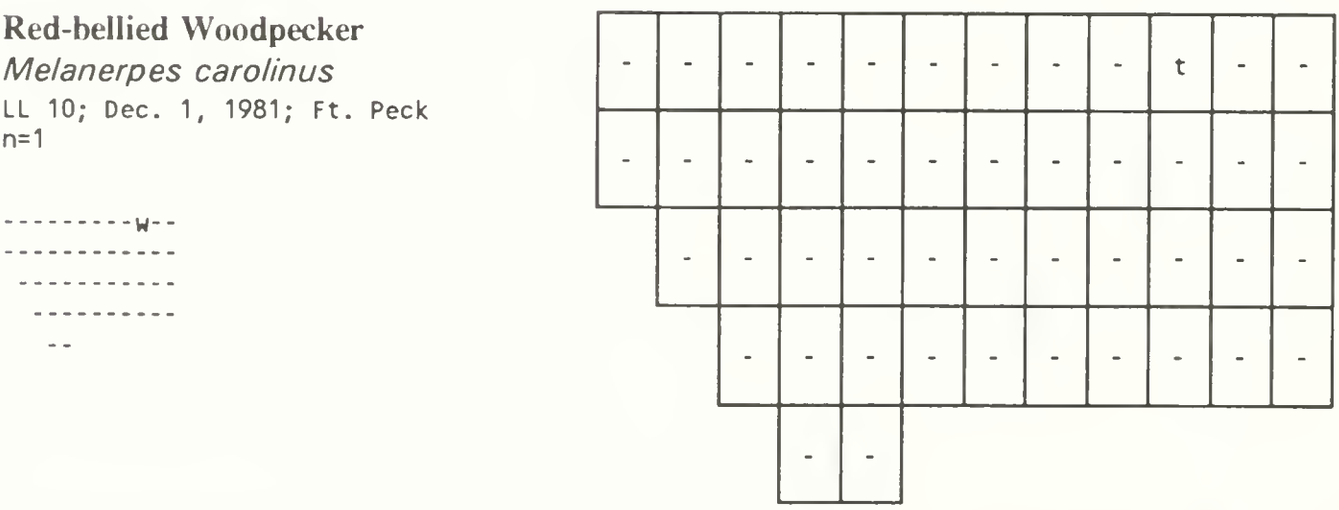


Red-headed Woodpecker
Melanerpes erythrocephalus



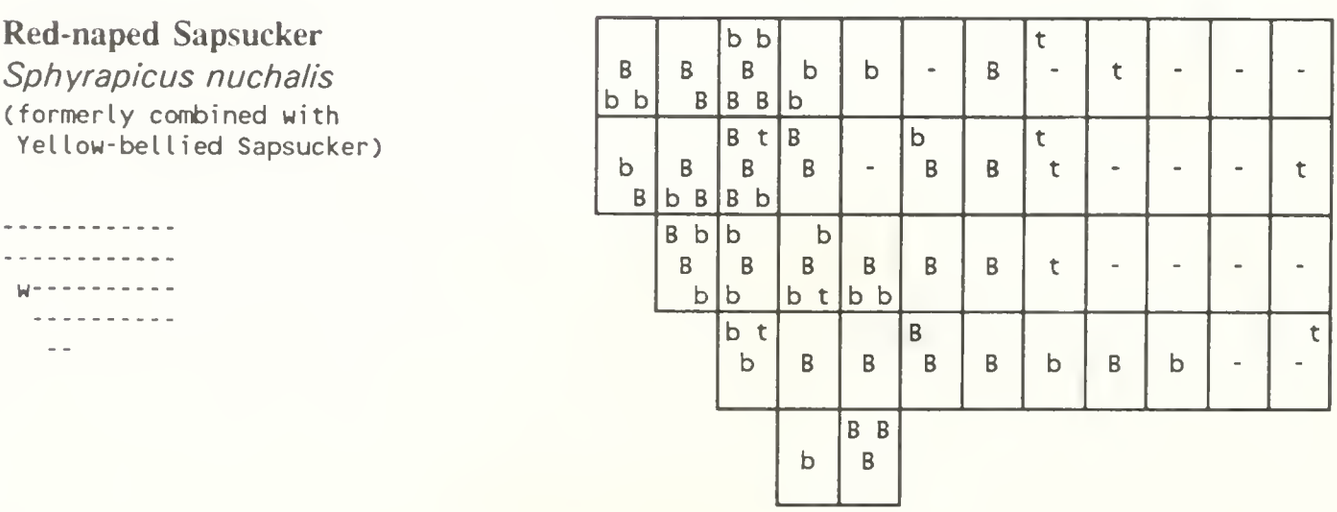
Red-bellied Woodpecker
Melanerpes carolinus

LL 10; Dec. 1, 1981; Ft. Peck
n=1

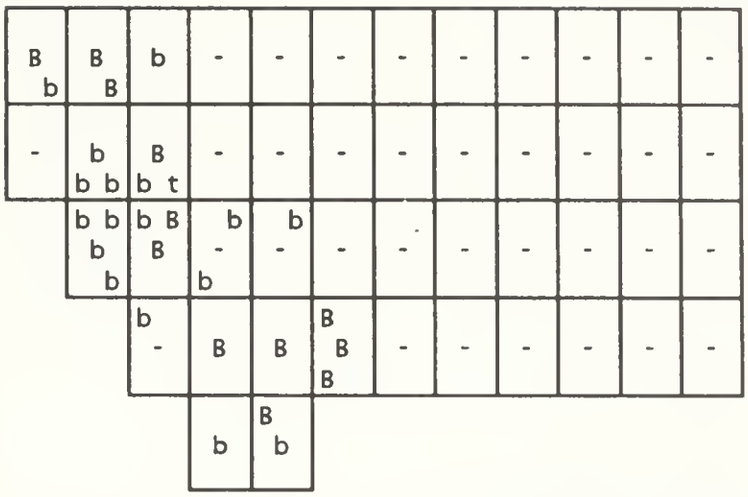


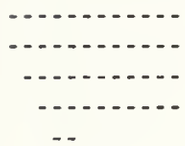
Red-naped Sapsucker
Sphyrapicus nuchalis

(formerly combined with
Yellow-bellied Sapsucker)

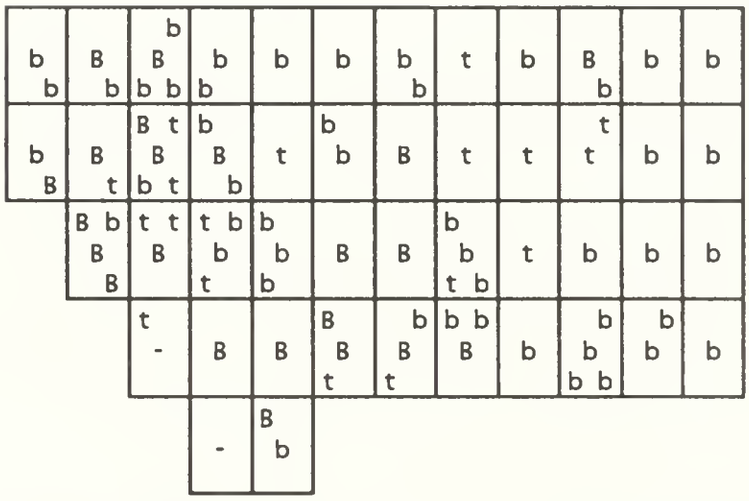


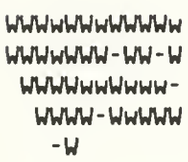
Williamson's Sapsucker
Sphyrapicus thyroideus



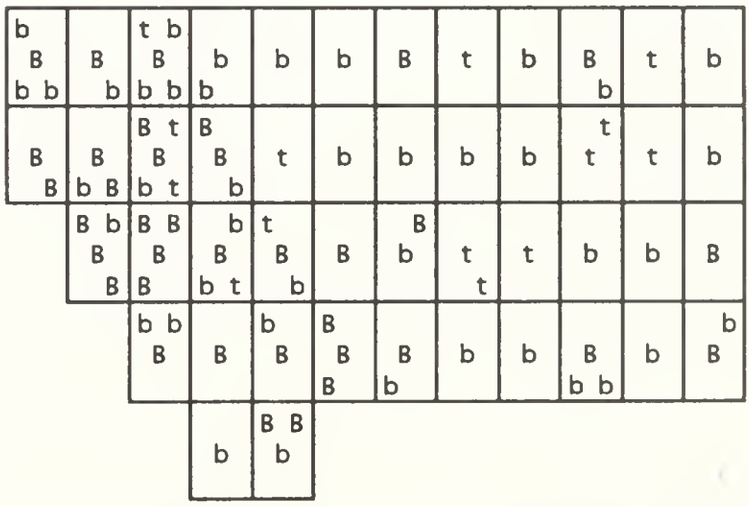


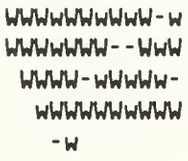
Downy Woodpecker
Picoides pubescens





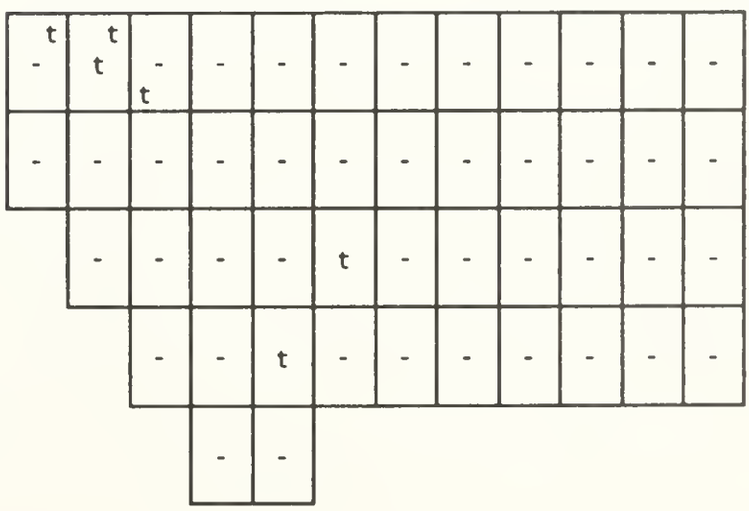
Hairy Woodpecker
Picoides villosus

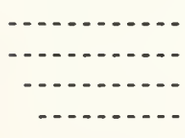




White-headed Woodpecker
Picoides albolarvatus

QLL 1B; March 23, 1991; Parsnip Overlook Trail southwest of Eureka
n=6





Three-toed Woodpecker
Picoides tridactylus

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WWW---------
WWW---------
 WW---------
  --W-------
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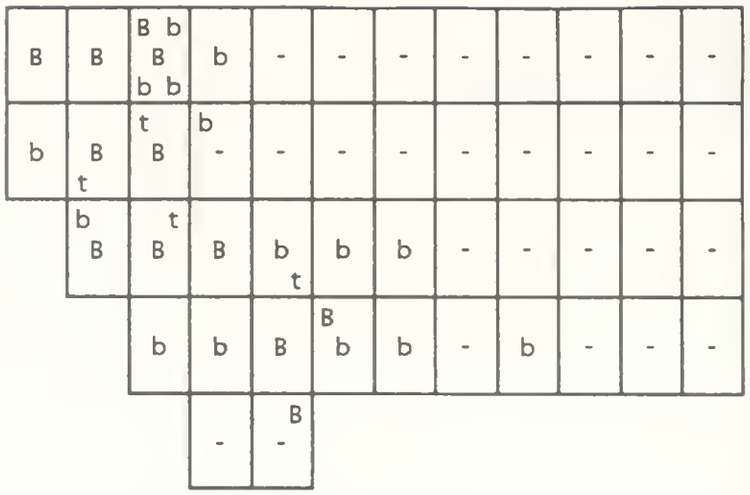

Black-backed Woodpecker
Picoides arcticus
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W-----------
 -W-W-------
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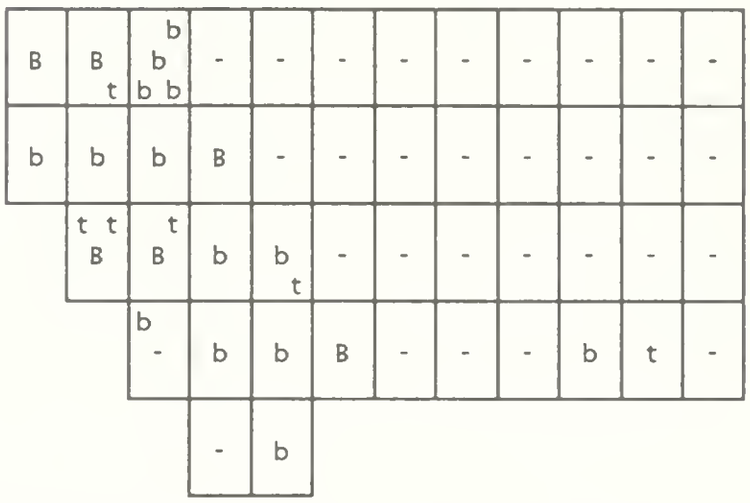

Northern Flicker
Colaptes auratus
SI

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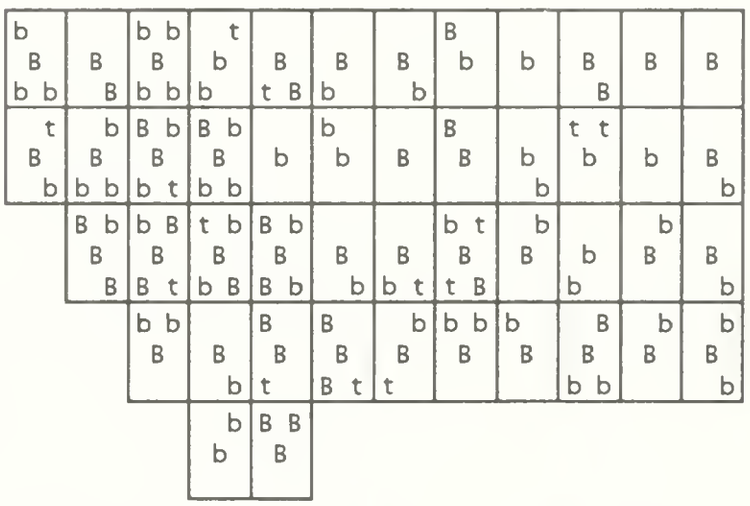

Pileated Woodpecker
Dryocopus pileatus

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WWW---------
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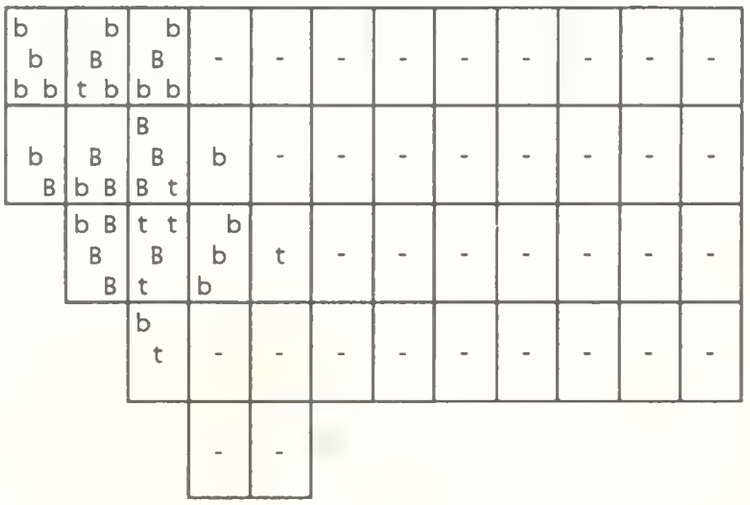
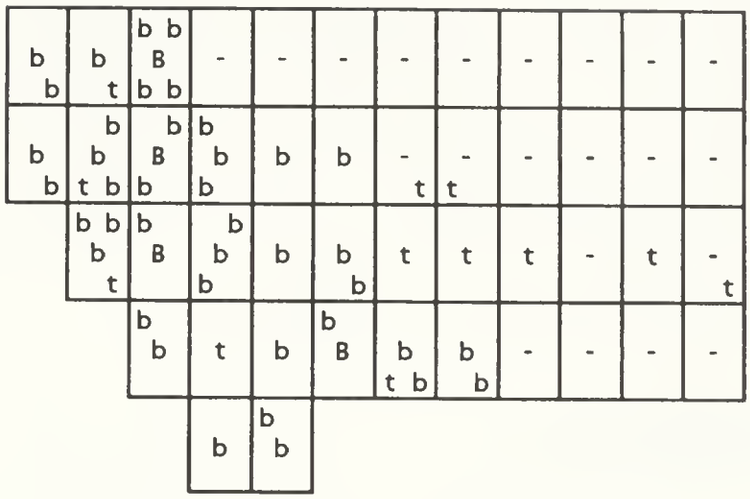
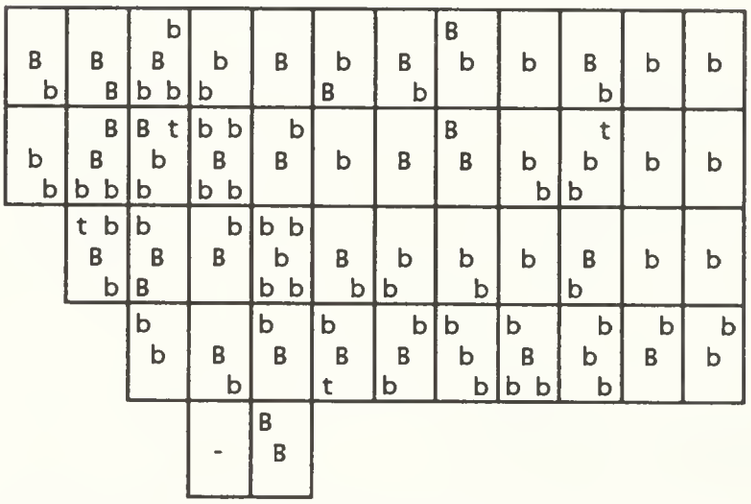


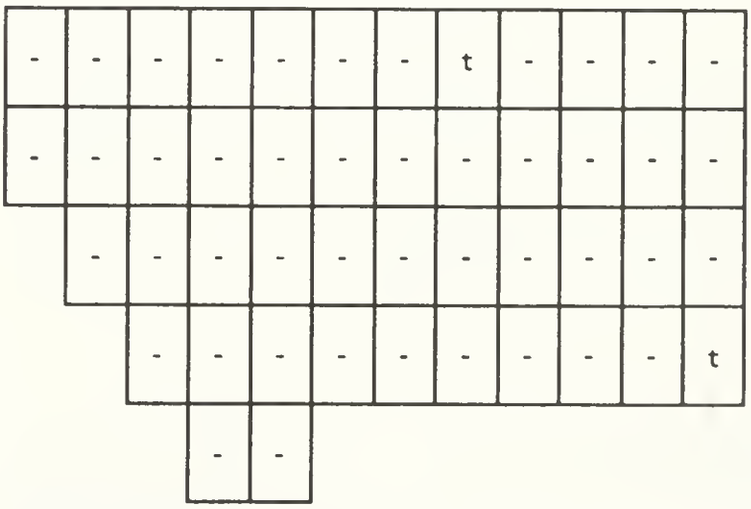
Olive-sided Flycatcher
Contopus borealis



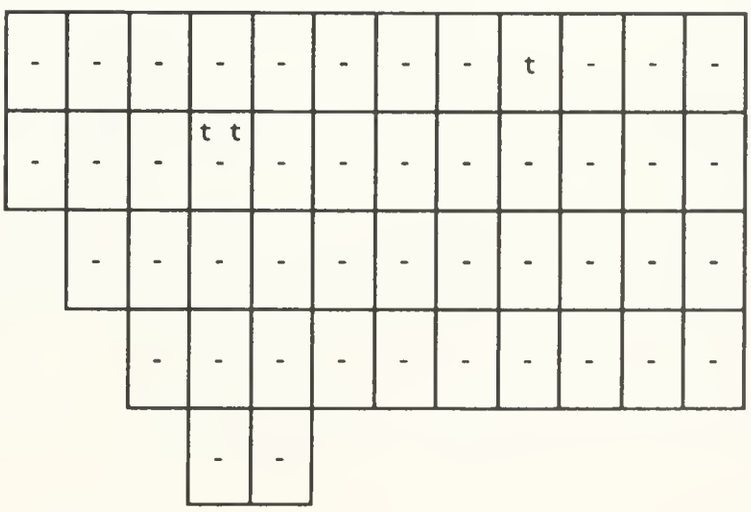
Western Wood-pewee
Contopus sordidulus



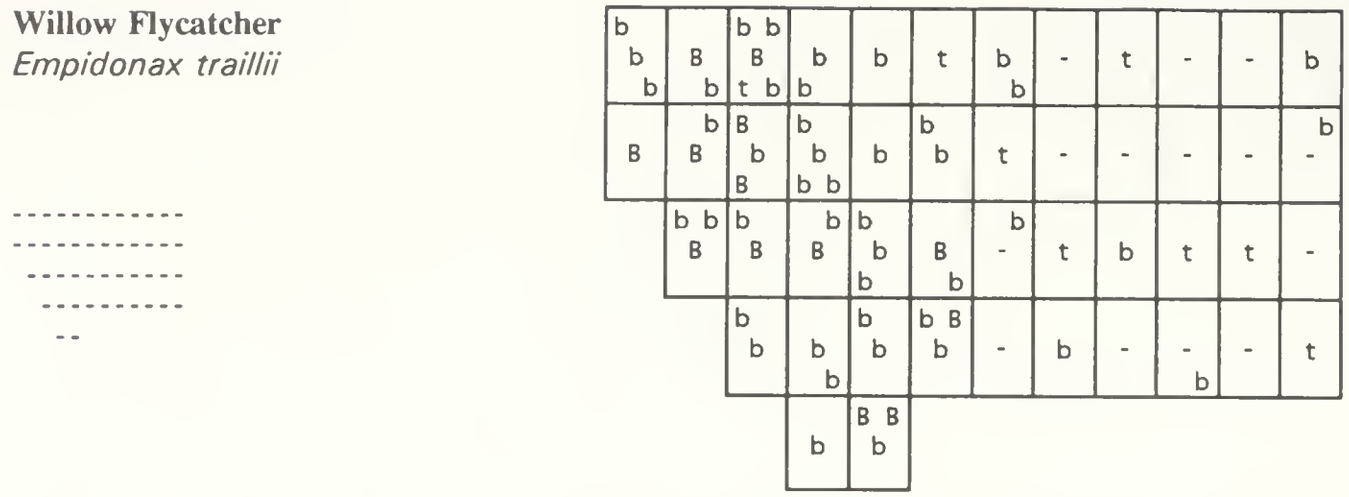
Eastern Wood-pewee
Contopus virens
LL 8; June 6, 1970; Dodson
n=2



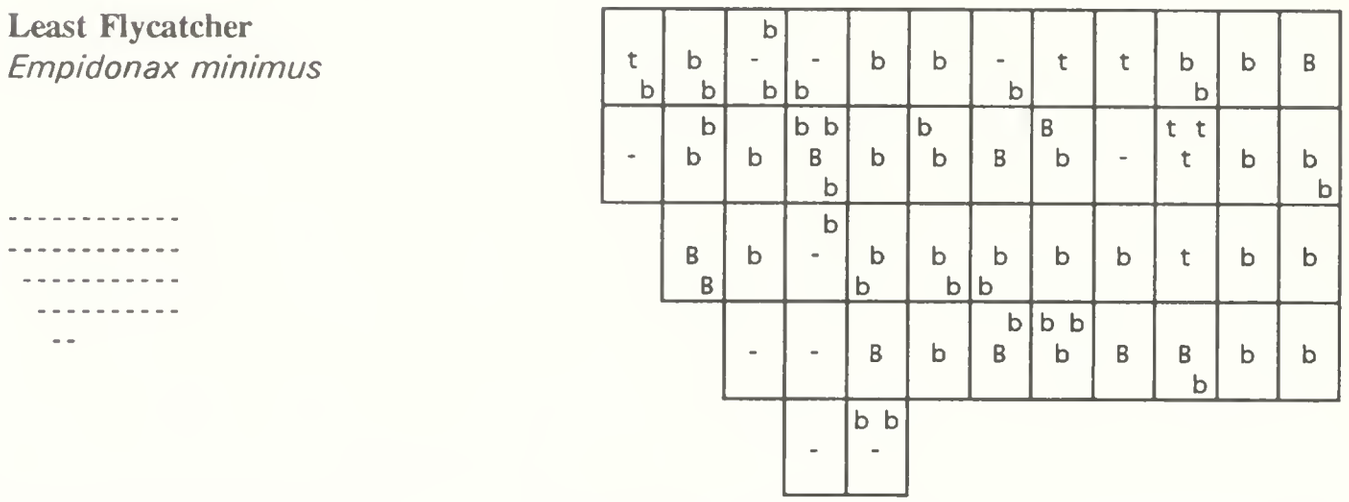
Alder Flycatcher
Empidonax alnorum
QLL 16A; Sept. 11, 1991;
Pine Butte Swamp
n=3



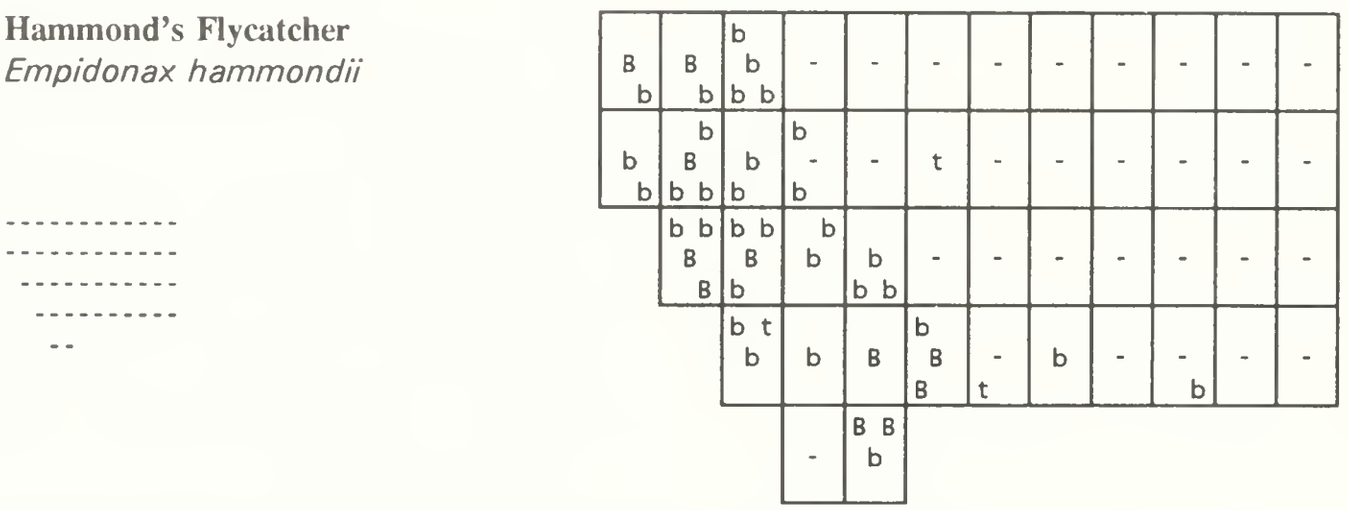
Willow Flycatcher
Empidonax traillii



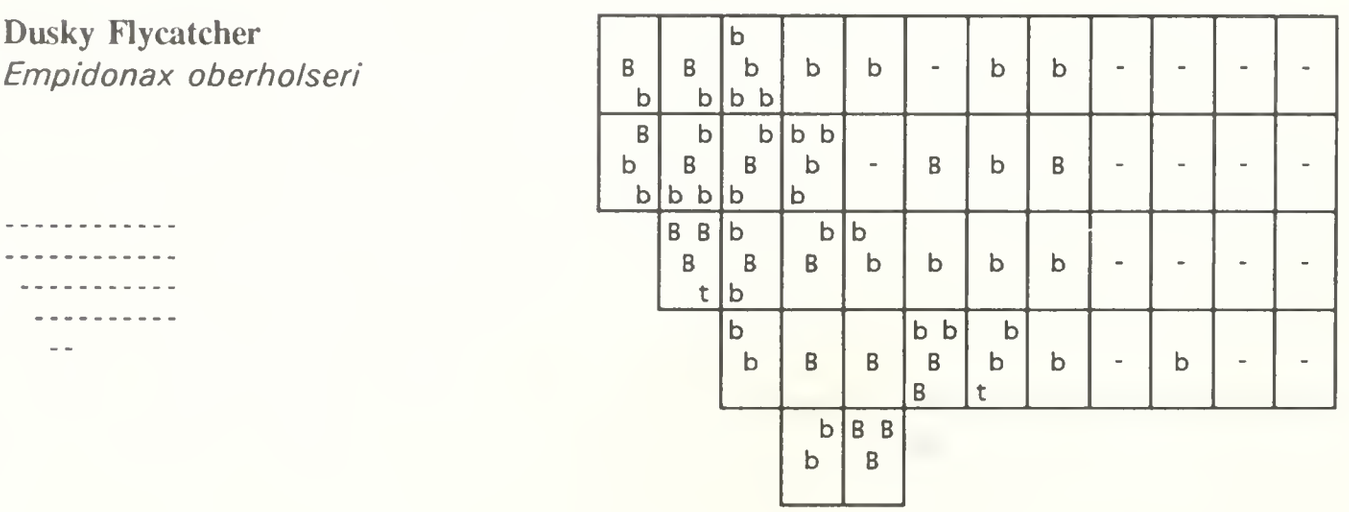
Least Flycatcher
Empidonax minimus



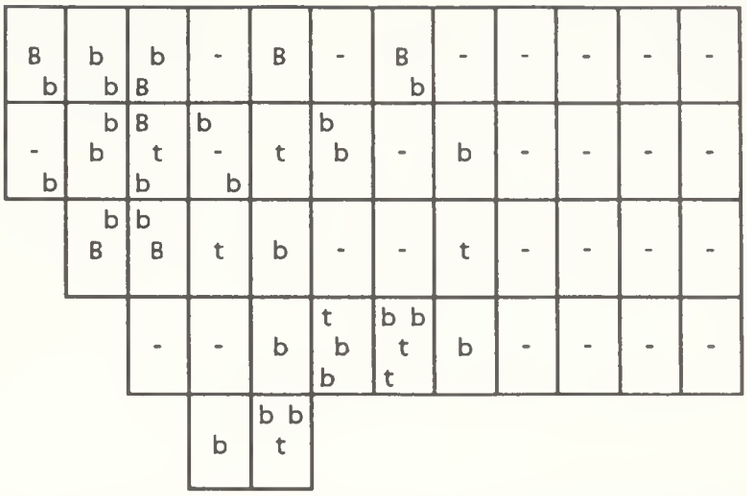
Hammond's Flycatcher
Empidonax hammondii



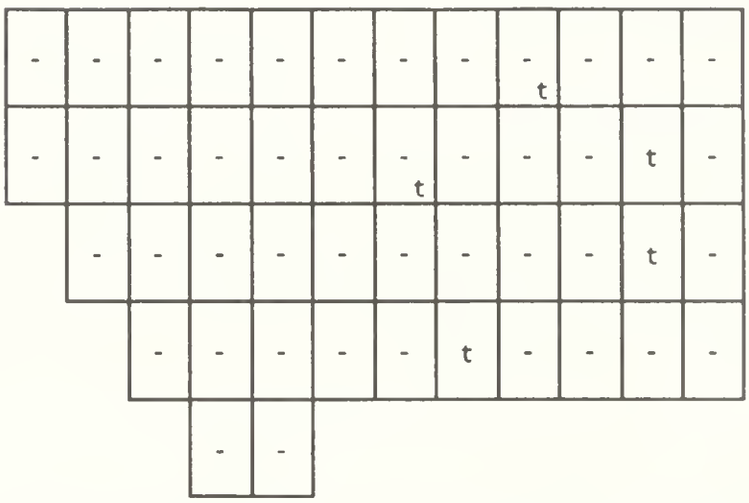
Dusky Flycatcher
Empidonax oberholseri



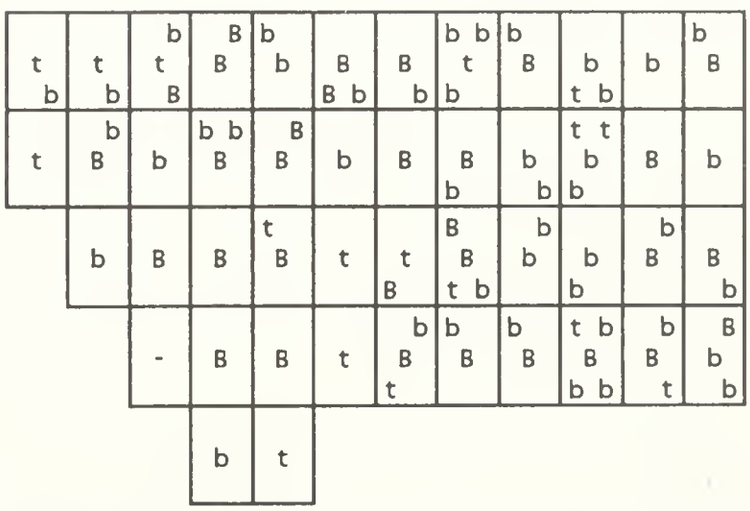
Cordilleran Flycatcher
Empidonax occidentalis
(formerly Western Flycatcher)



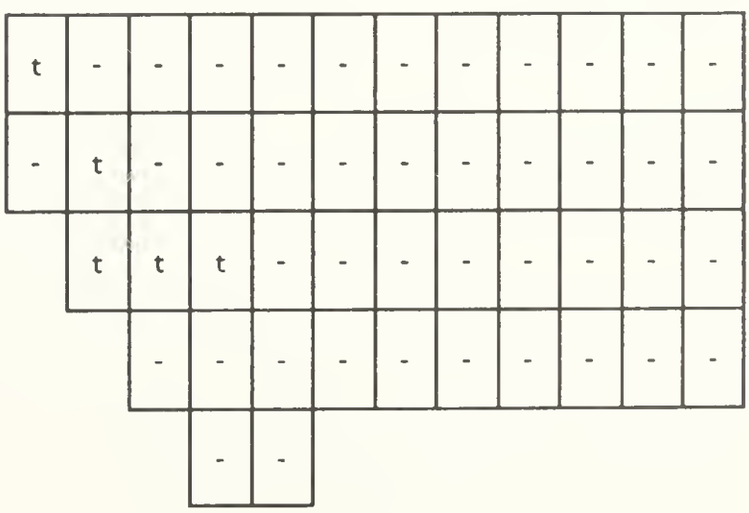
Eastern Phoebe
Sayornis phoebe
QLL 19D; Aug. 13, 1985;
Lewistown
n=5



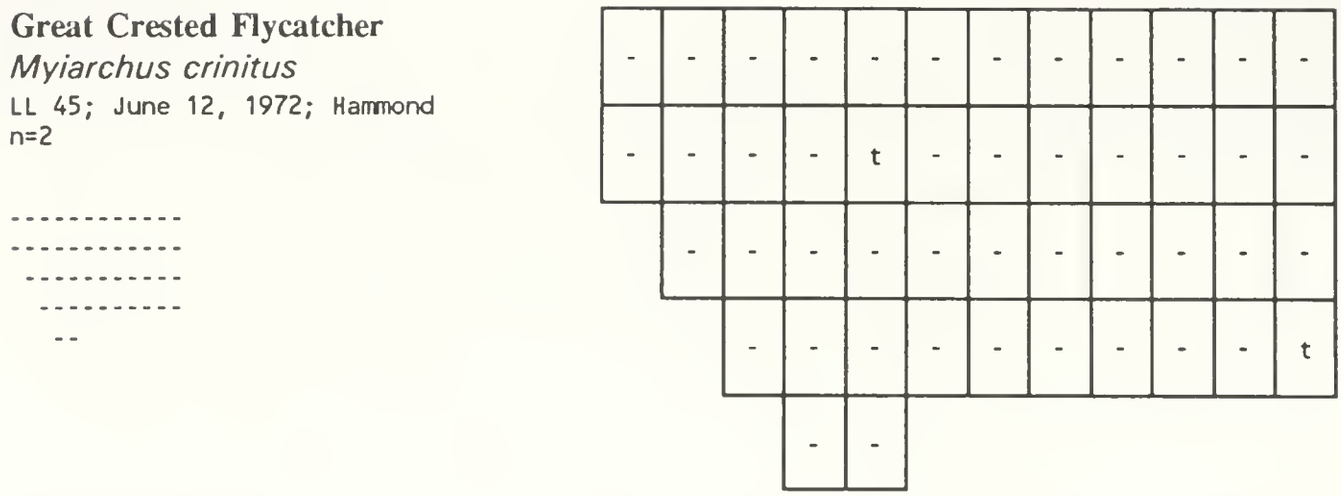
Say's Phoebe
Sayornis saya



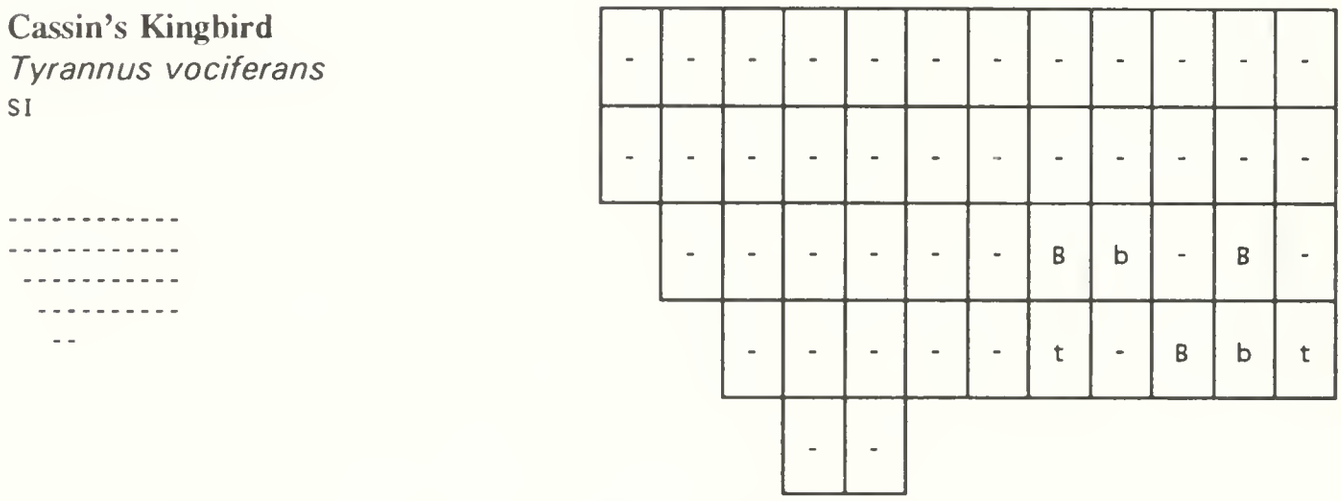
Ash-throated Flycatcher
Myiarchus cinerascens
LL 27; Aug., 1978; Helena
n=9



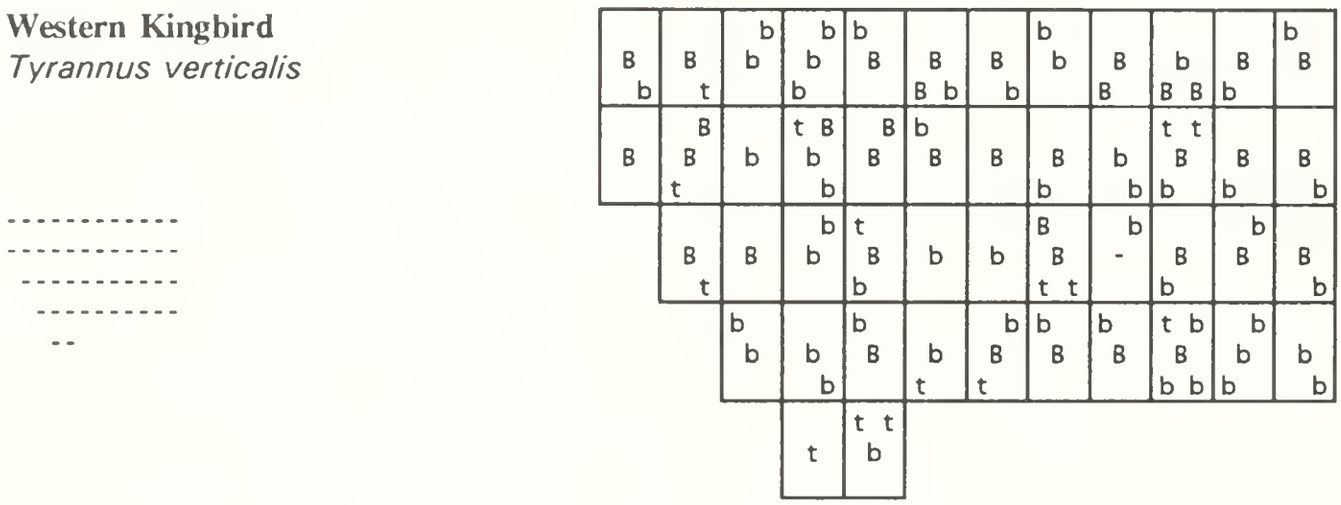
Great Crested Flycatcher
Myiarchus crinitus
LL 45; June 12, 1972; Hammond
n=2



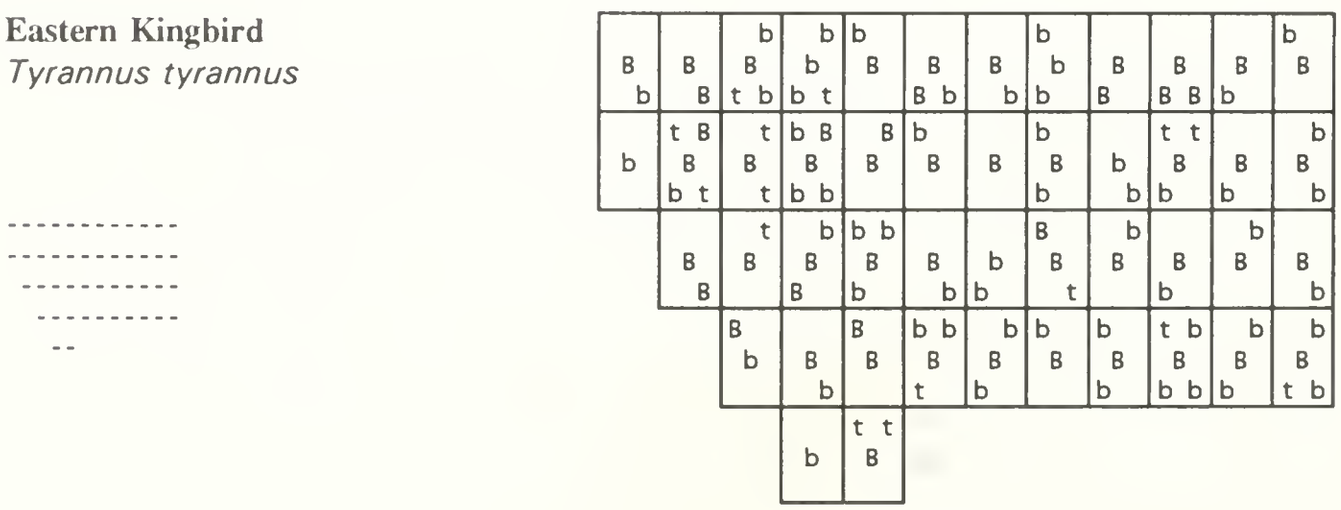
Cassin's Kingbird
Tyrannus vociferans
SI



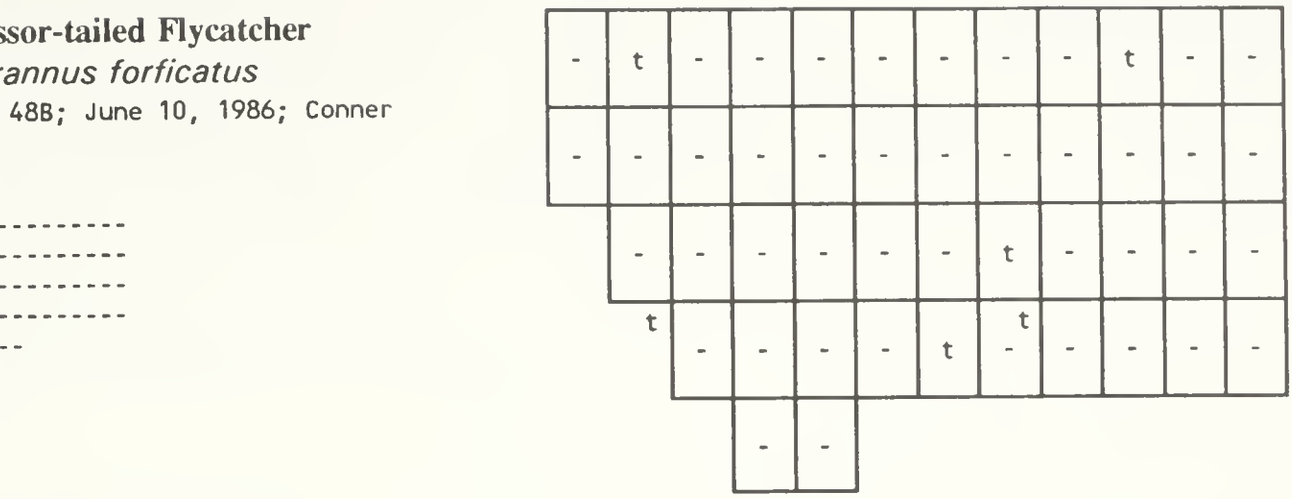
Western Kingbird
Tyrannus verticalis



Eastern Kingbird
Tyrannus tyrannus

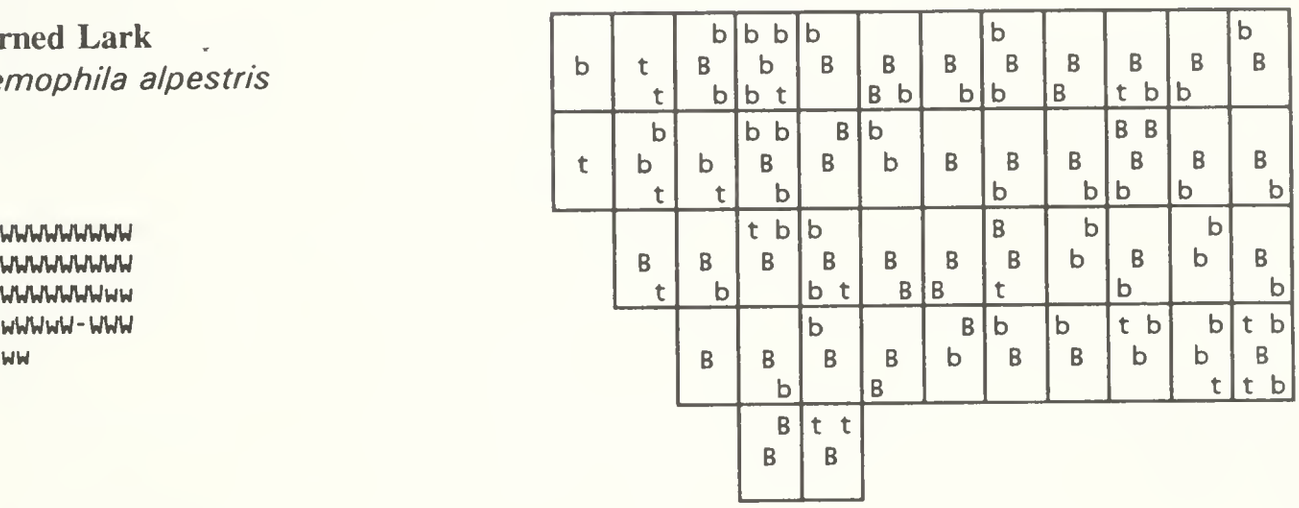


Scissor-tailed Flycatcher
Tyrannus forficatus
QLL 48B; June 10, 1986; Conner
n=6



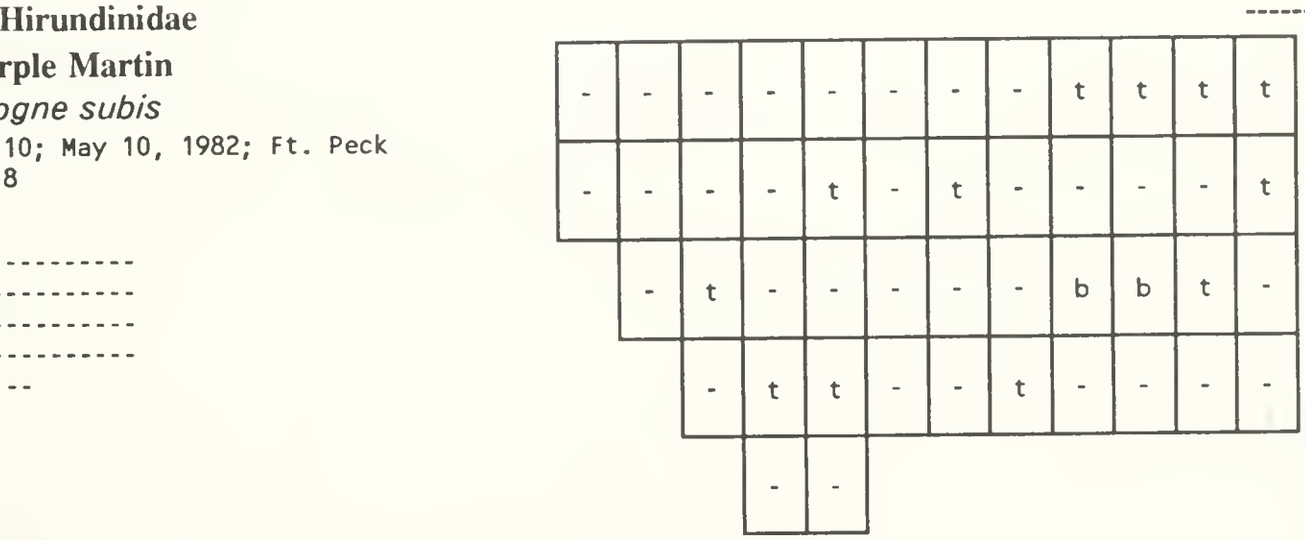
■ Alaudidae

Horned Lark
Eremophila alpestris

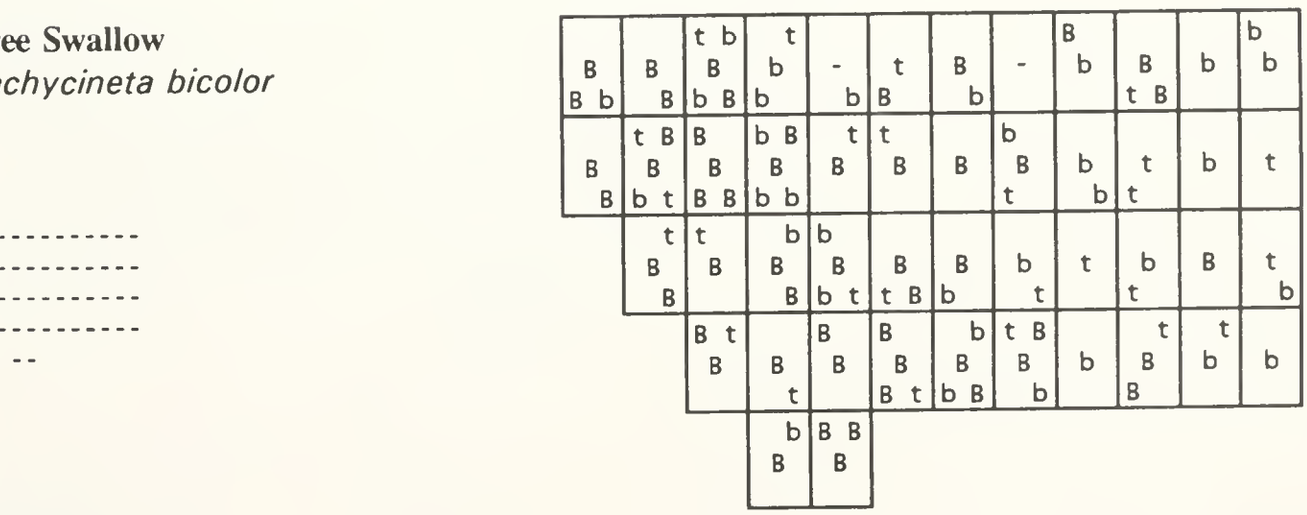


■ Hirundinidae

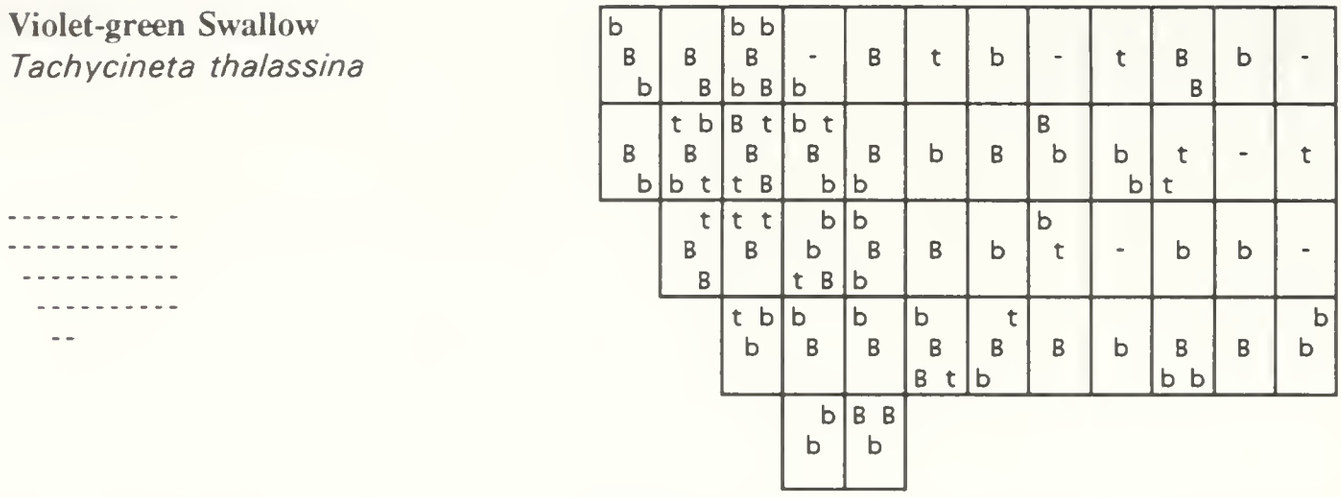
Purple Martin
Progne subis
LL 10; May 10, 1982; Ft. Peck
n=18



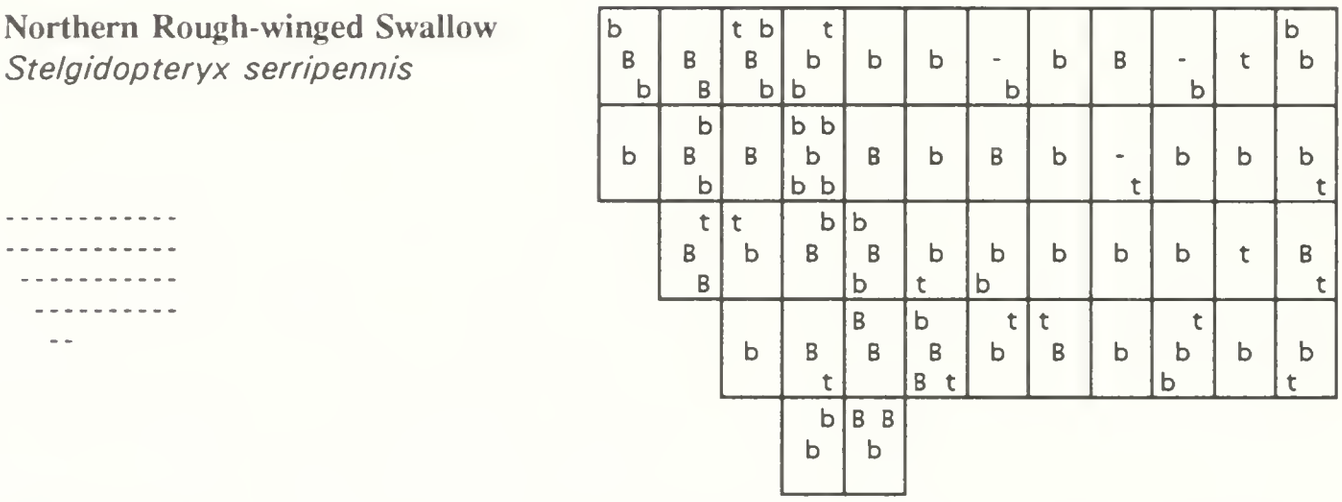
Tree Swallow
Tachycineta bicolor



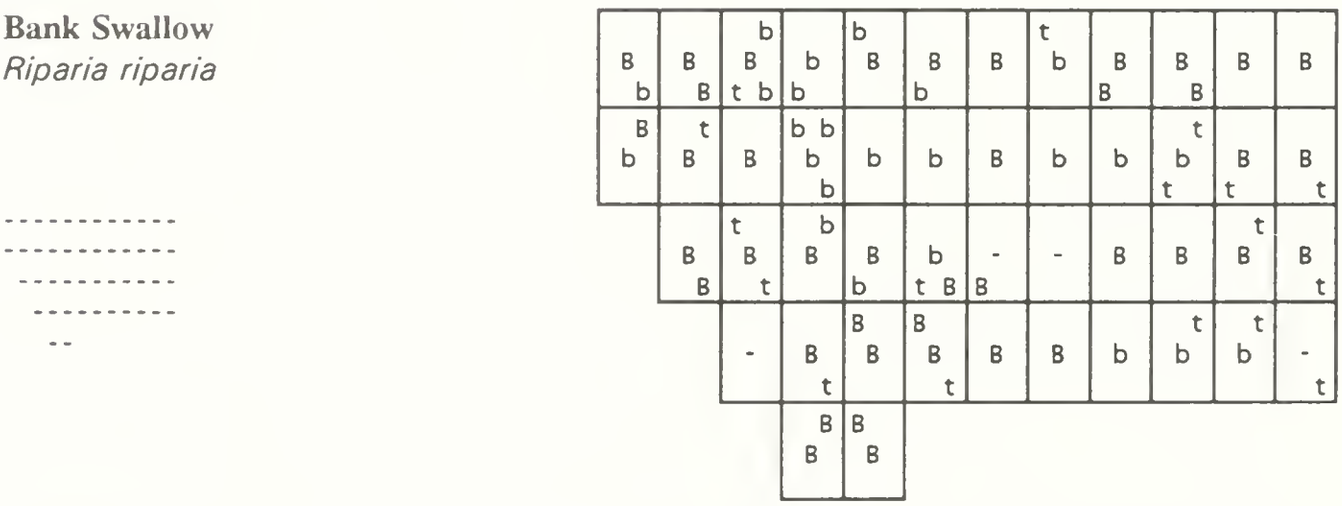
Violet-green Swallow
Tachycineta thalassina



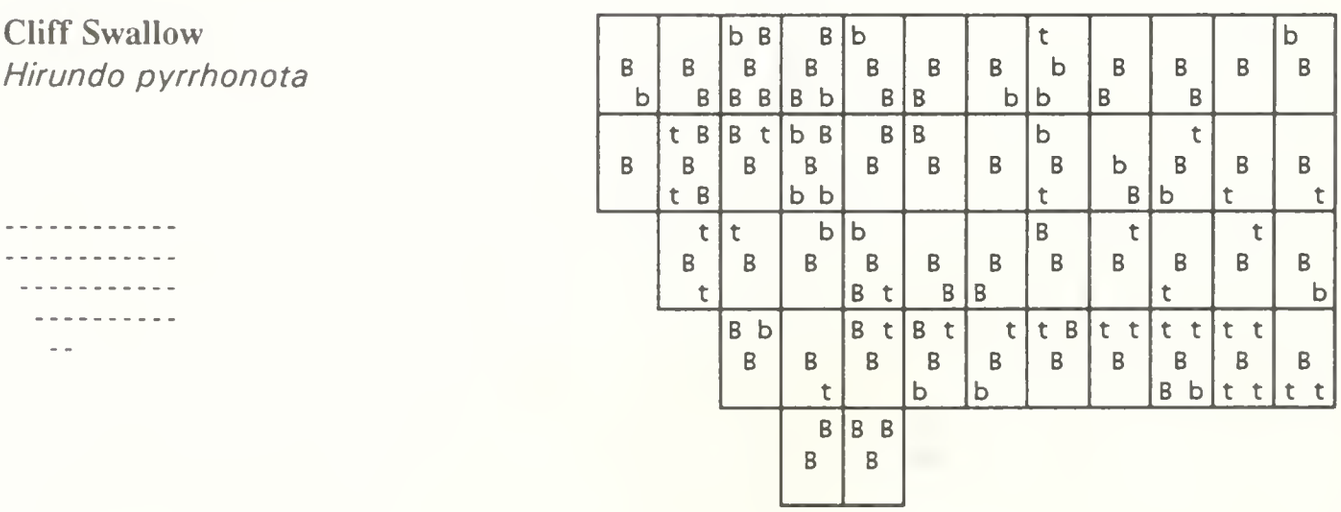
Northern Rough-winged Swallow
Stelgidopteryx serripennis



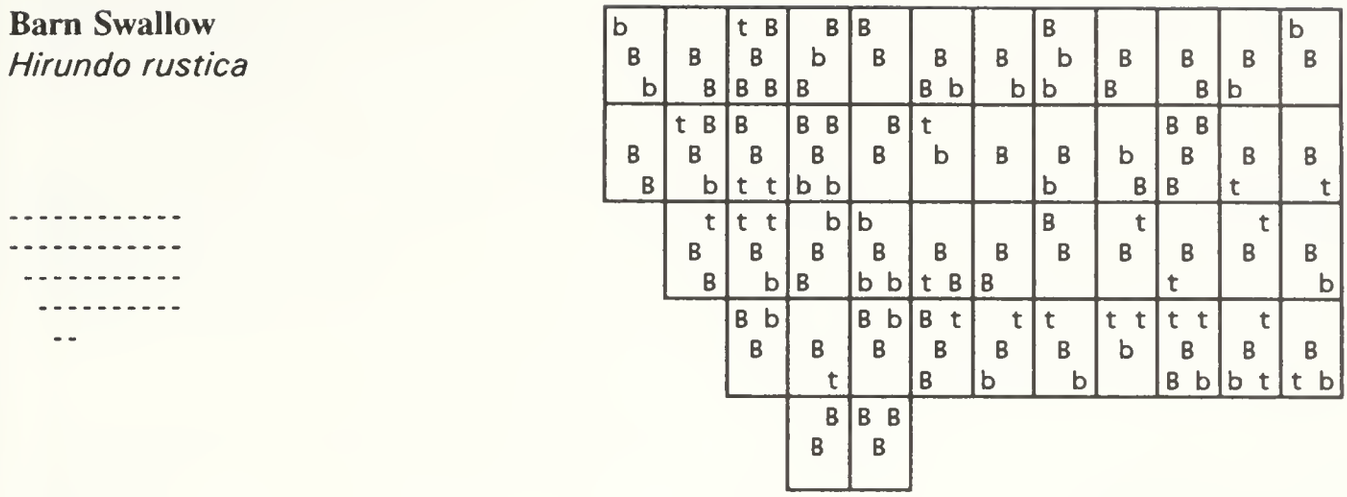
Bank Swallow
Riparia riparia



Cliff Swallow
Hirundo pyrrhonota

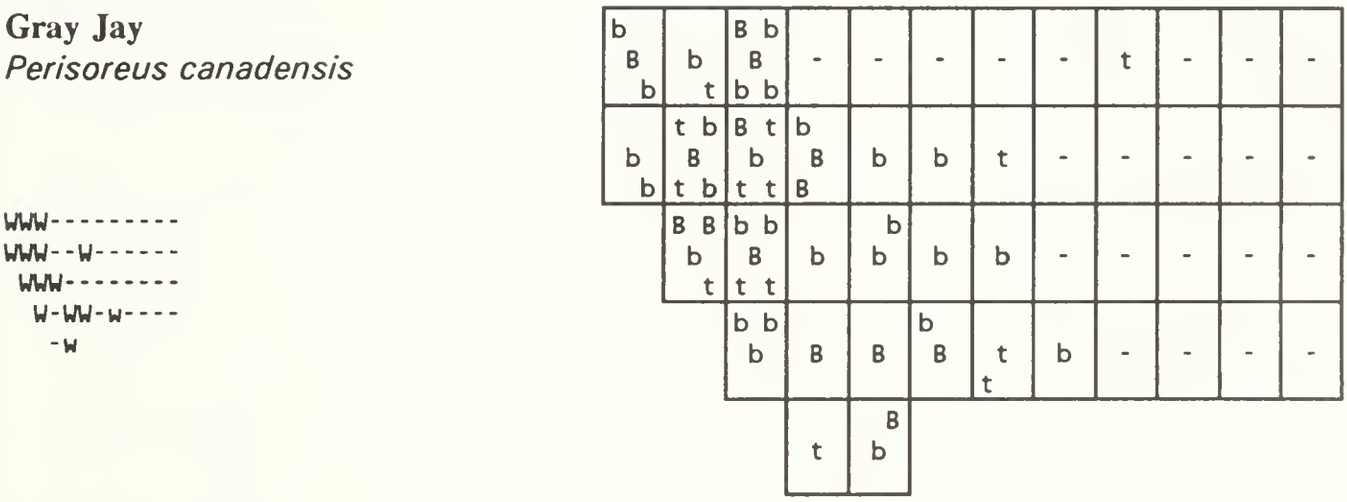


Barn Swallow
Hirundo rustica

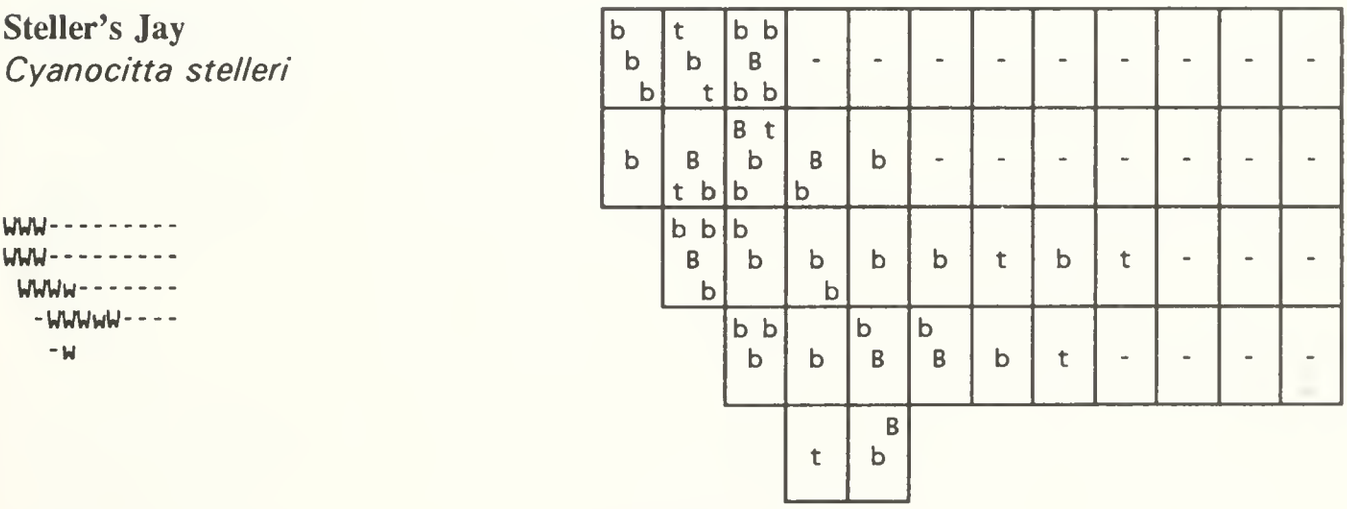


■ **Corvidae**

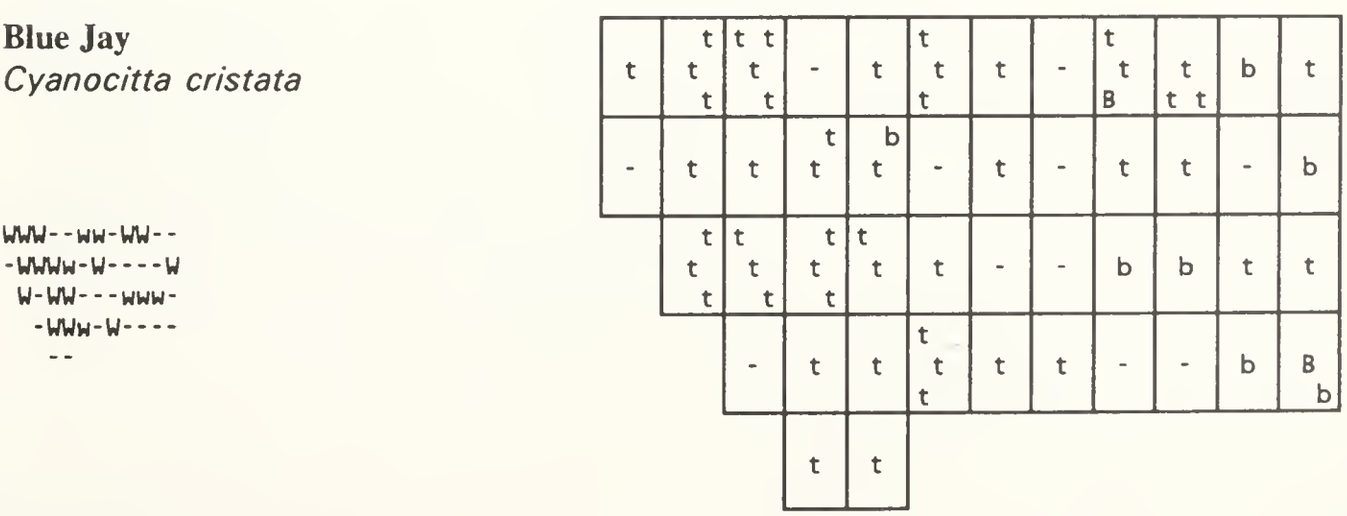
Gray Jay
Perisoreus canadensis



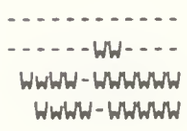
Steller's Jay
Cyanocitta stelleri

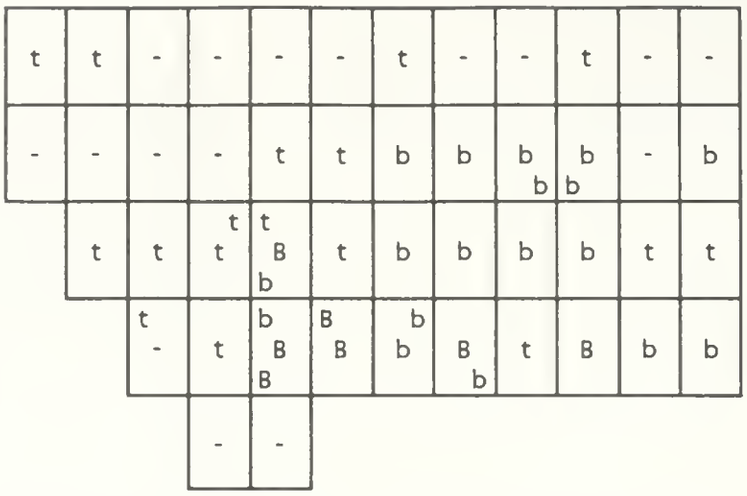


Blue Jay
Cyanocitta cristata

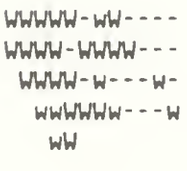


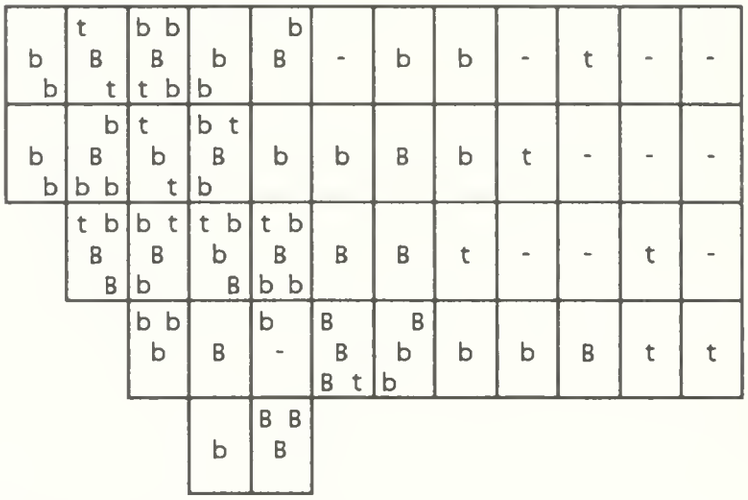
Pinyon Jay
Gymnorhinus cyanocephalus



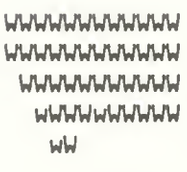


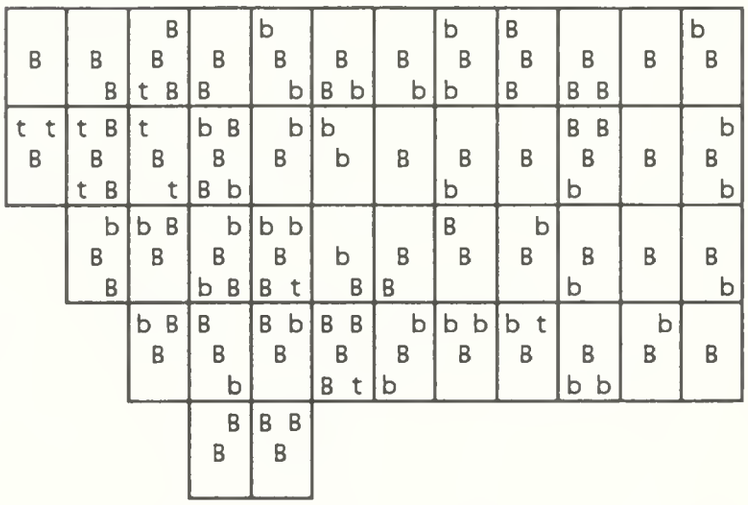
Clark's Nutcracker
Nucifraga columbiana



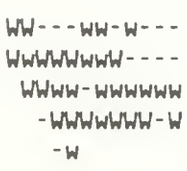


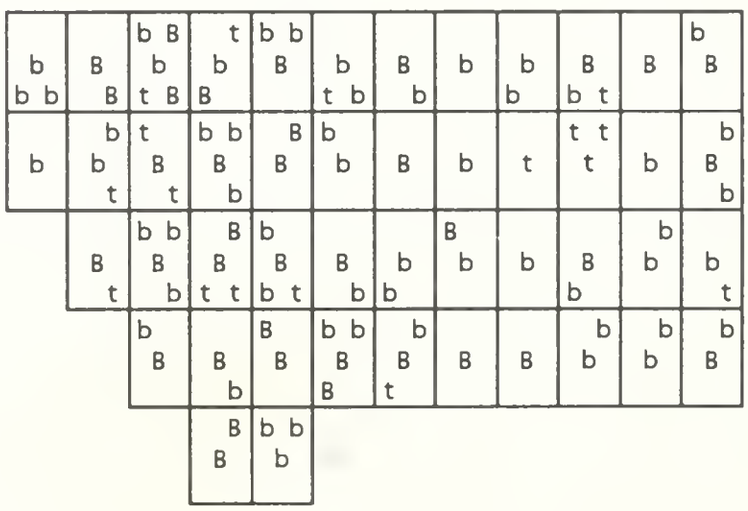
Black-billed Magpie
Pica pica



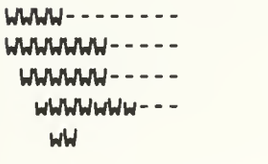


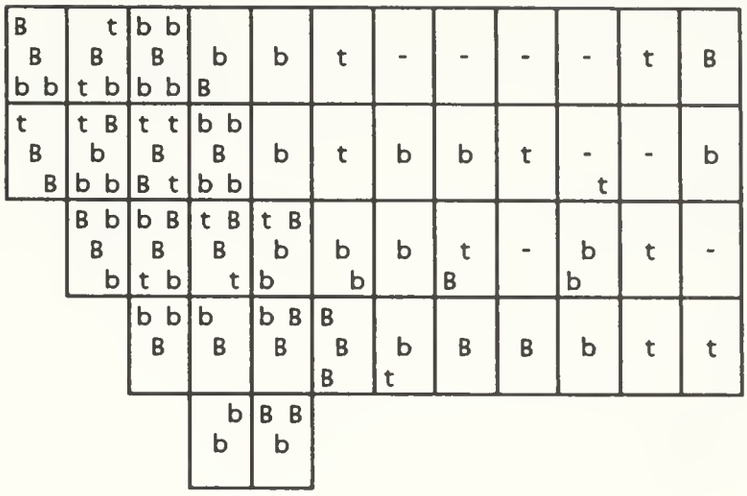
American Crow
Corvus brachyrhynchos





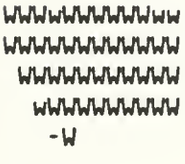
Common Raven
Corvus corax

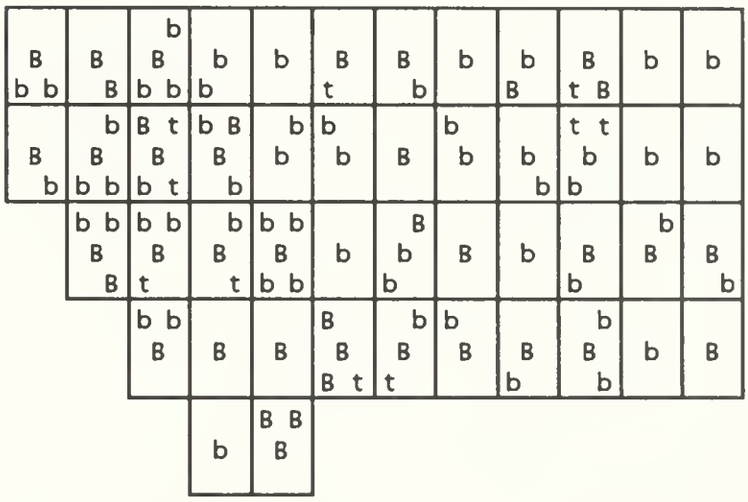




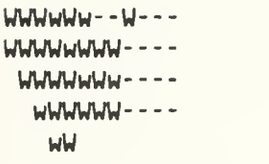
■ Paridae

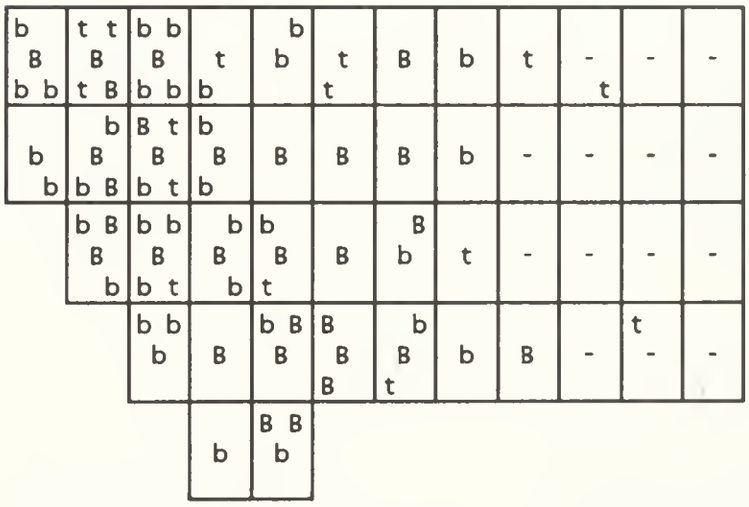
Black-capped Chickadee
Parus atricapillus



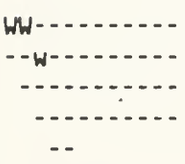


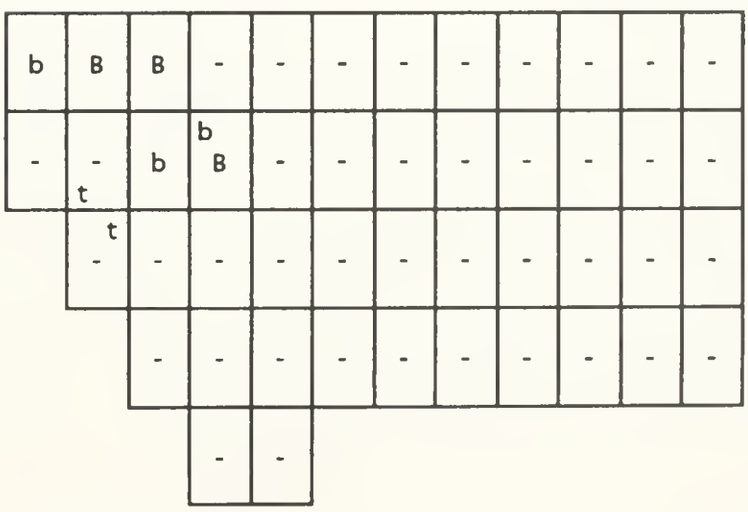
Mountain Chickadee
Parus gambeli



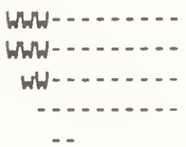


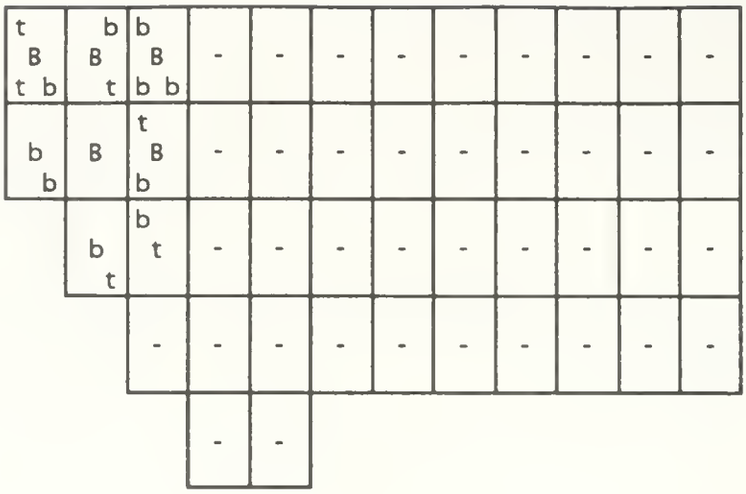
Boreal Chickadee
Parus hudsonicus





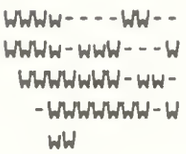
Chestnut-backed Chickadee
Parus rufescens

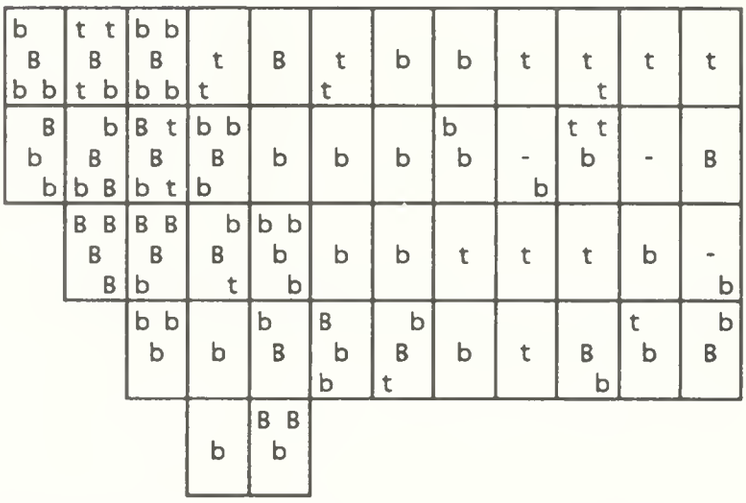




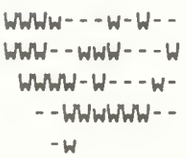
■ Sittidae

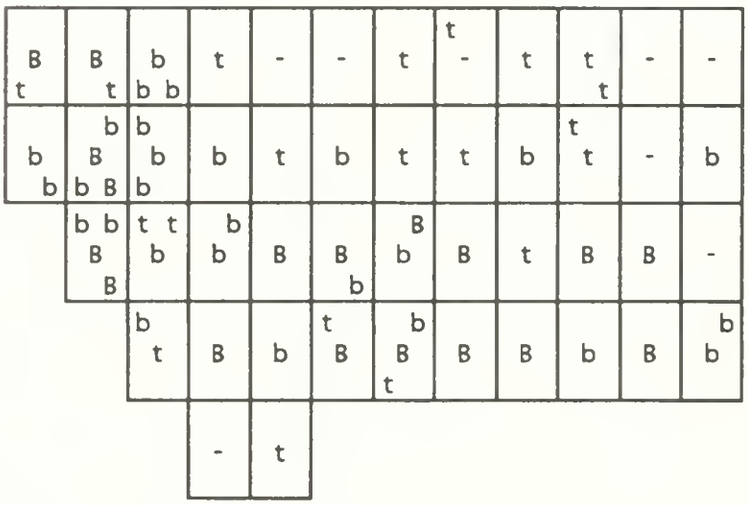
Red-breasted Nuthatch
Sitta canadensis



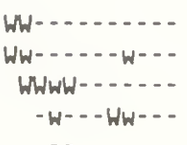


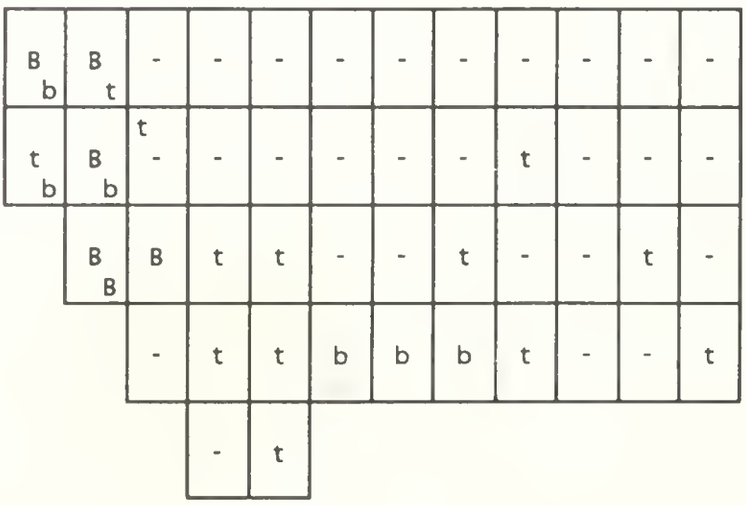
White-breasted Nuthatch
Sitta carolinensis



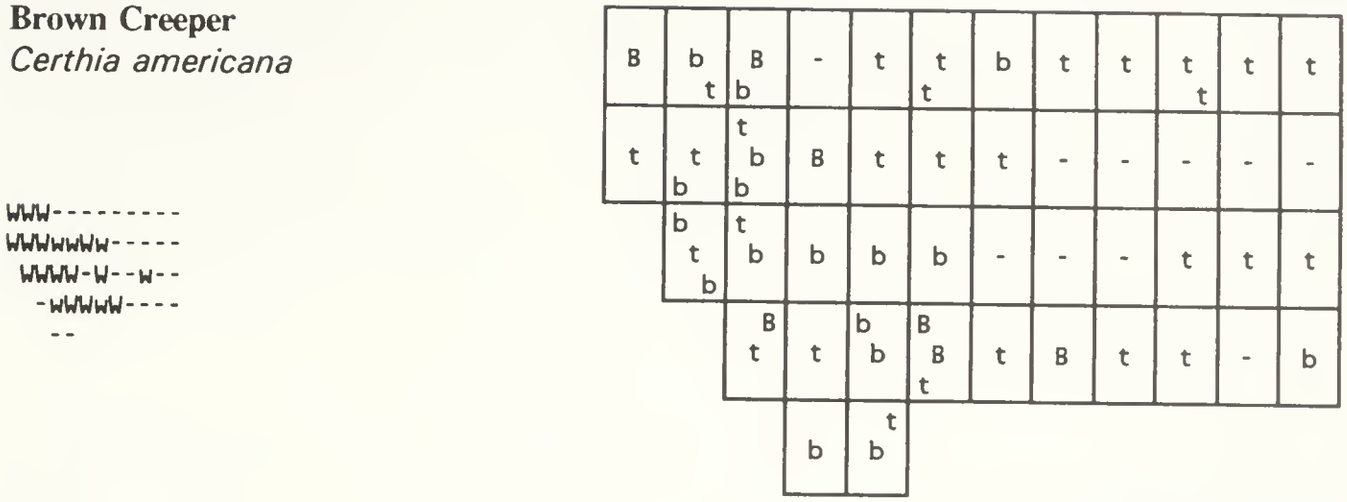


Pygmy Nuthatch
Sitta pygmaea



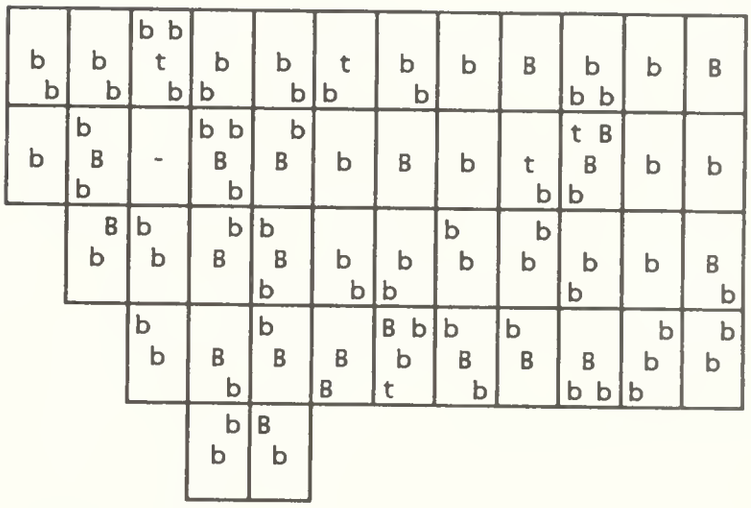


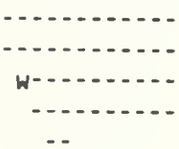
Brown Creeper
Certhia americana



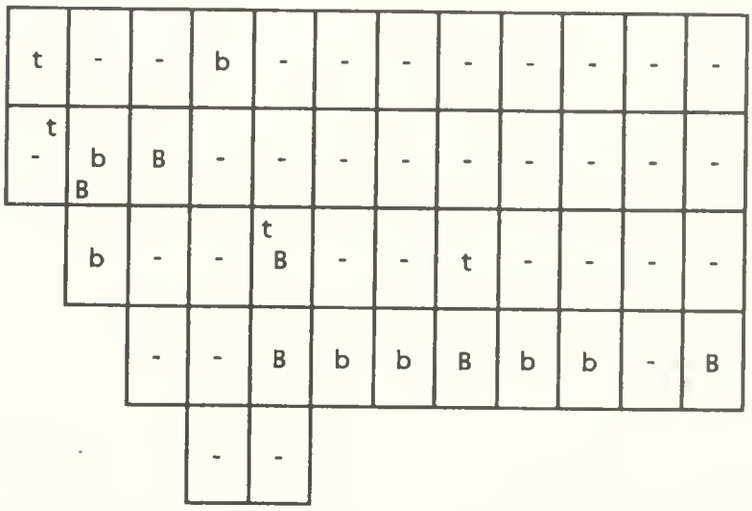
■ Troglodytidae

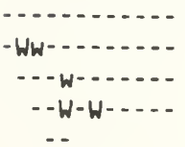
Rock Wren
Salpinctes obsoletus



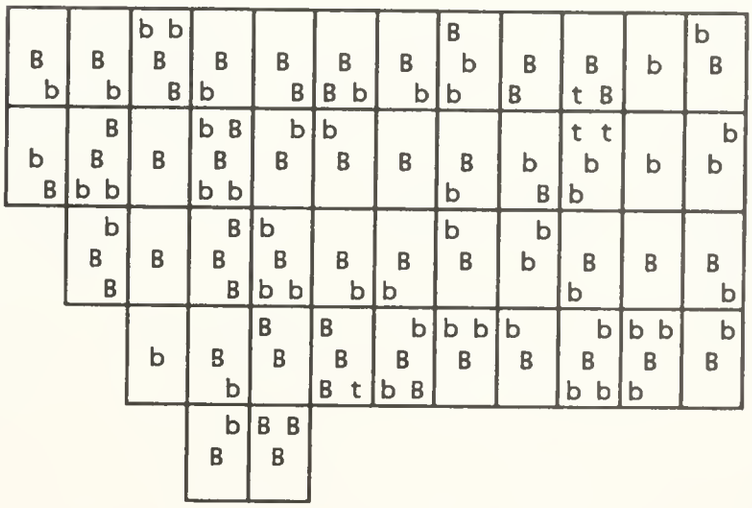


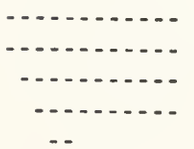
Canyon Wren
Catherpes mexicanus



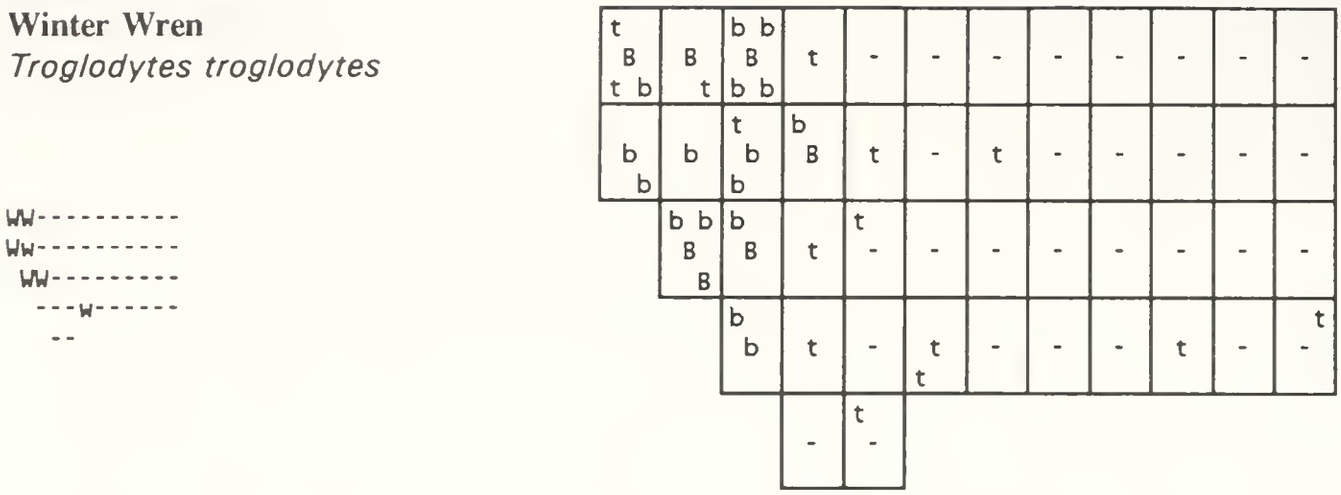


House Wren
Troglodytes aedon

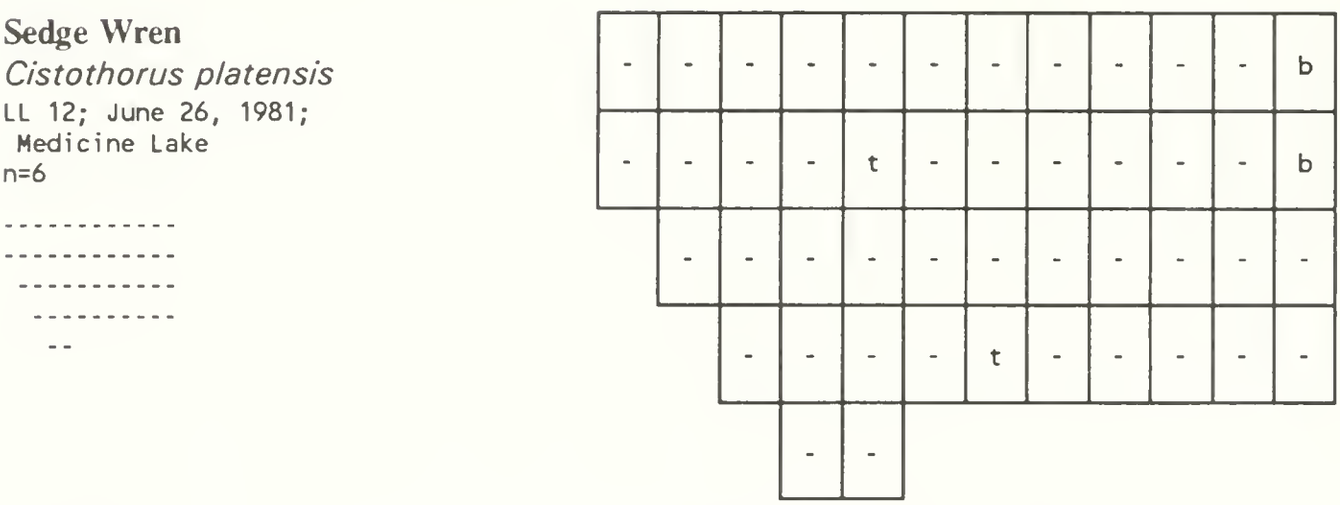




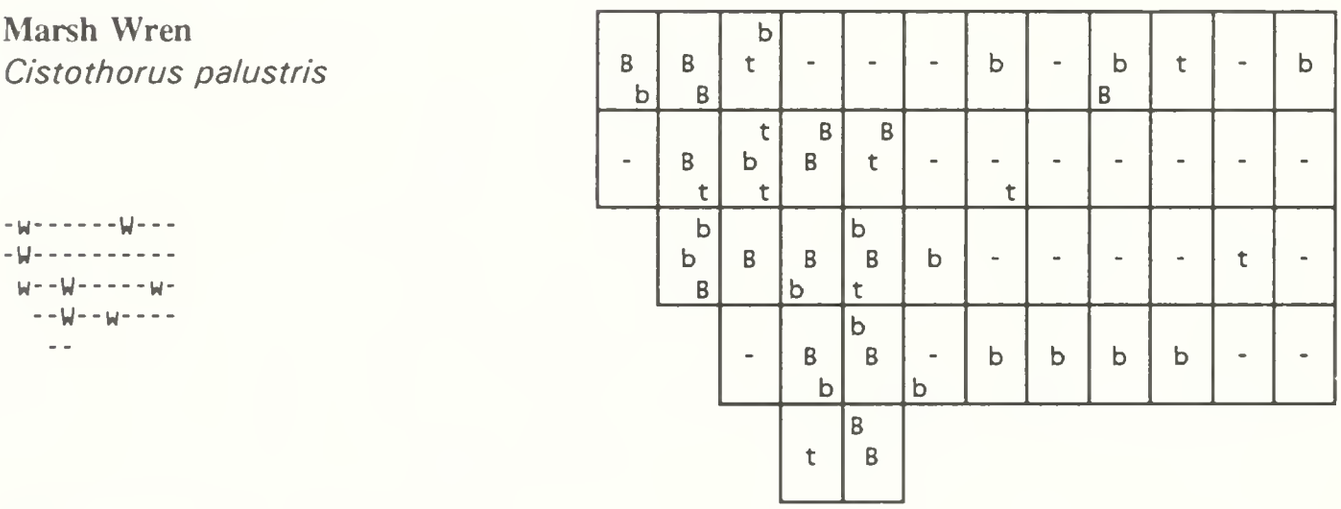
Winter Wren
Troglodytes troglodytes



Sedge Wren
Cistothorus platensis
LL 12; June 26, 1981;
Medicine Lake
n=6

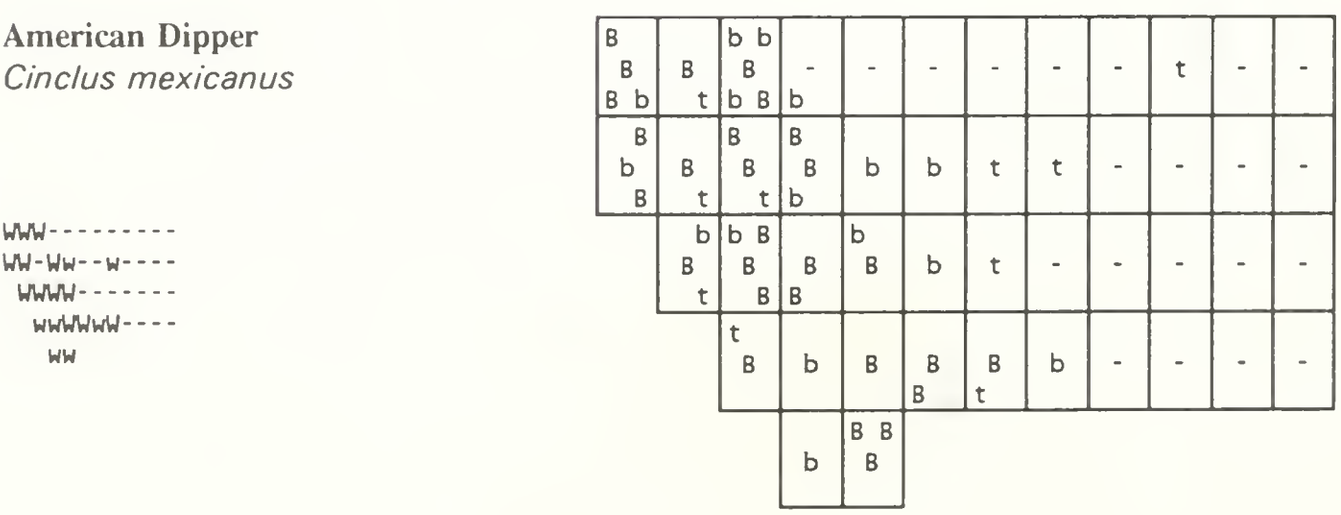


Marsh Wren
Cistothorus palustris



■ Cinclidae

American Dipper
Cinclus mexicanus



Golden-crowned Kinglet
Regulus satrapa

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WW-w----w---
WWWw--------
 WWWW-w-----
  --Wwww----
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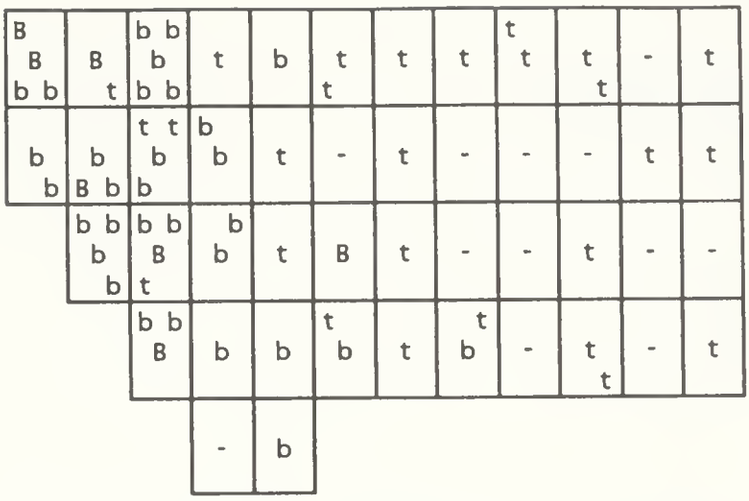

Ruby-crowned Kinglet
Regulus calendula

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W-------w---
-w----------
 w----------
  --w-------
    --
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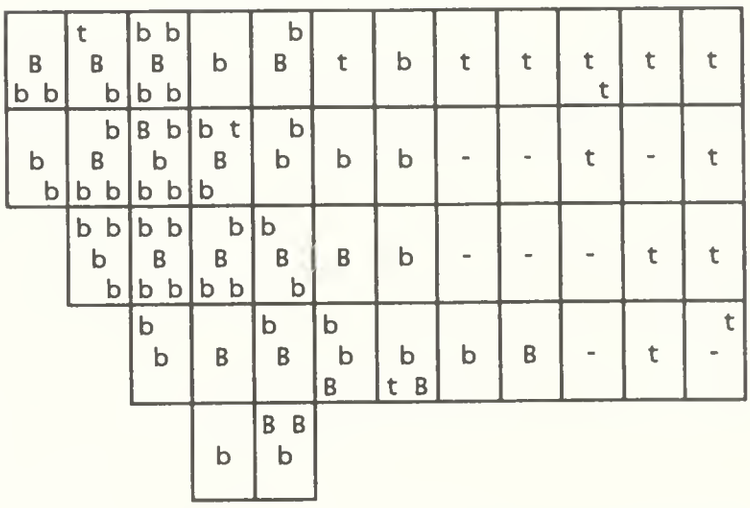

Blue-gray Gnatcatcher
Polioptila caerulea

LL 10; Oct. 9, 1977; Ft. Peck
n=1

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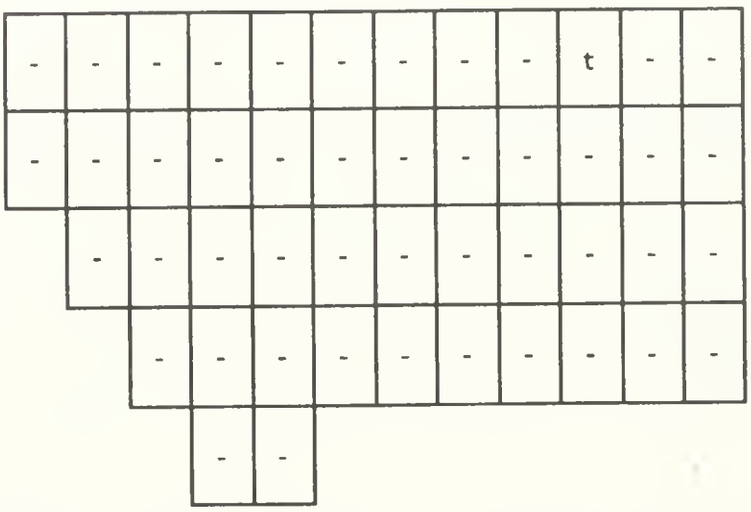

Eastern Bluebird
Sialia sialis

QLL 43A; July, 1991;
Lame Deer
n=18

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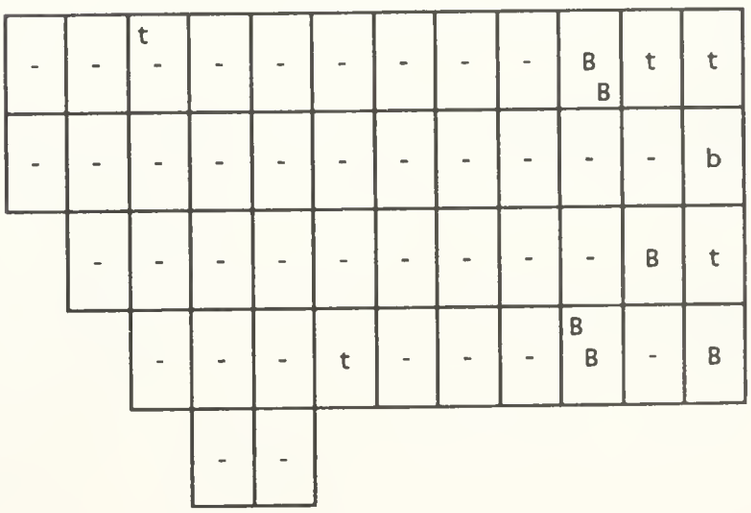

Western Bluebird
Sialia mexicana

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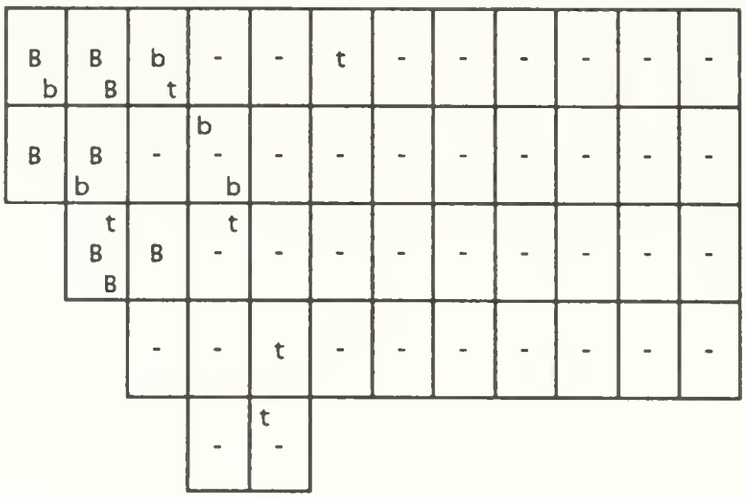

Mountain Bluebird
Sialia currucoides

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WW-------W--
W-----------
 W----------
  --W--W----
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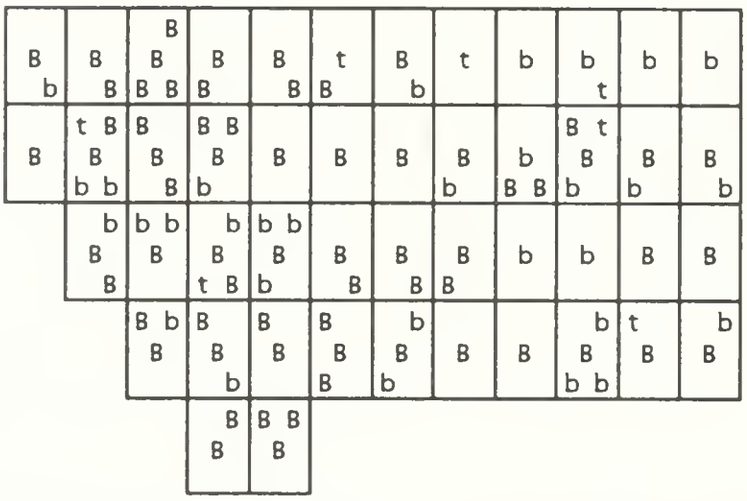

Townsend's Solitaire
Myadestes townsendi

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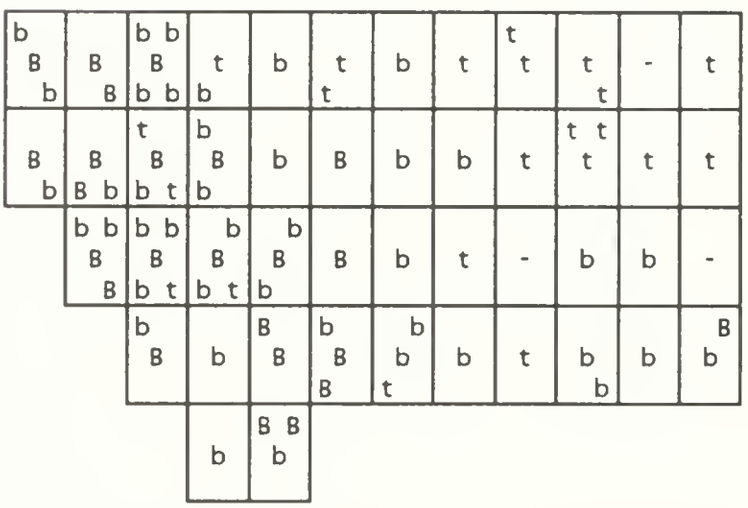
WWW-----WW--
WWWWW-WW-W-W
 WWWWWW----W
  WWWWWWWW--
   W-
```



Veery
Catharus fuscescens

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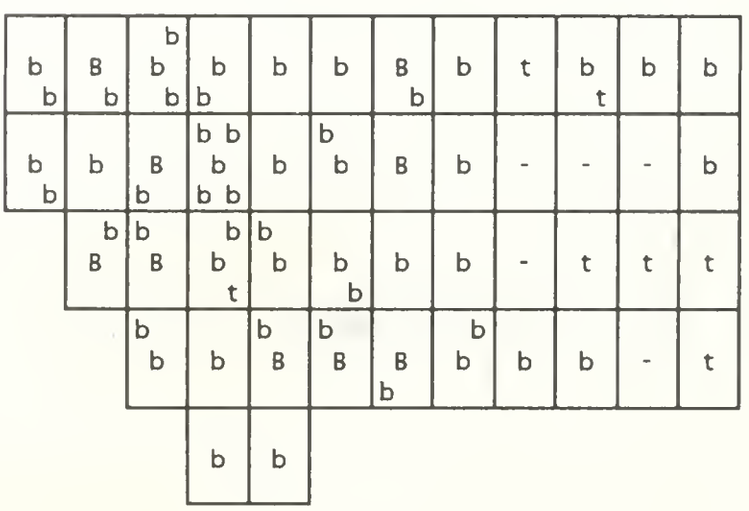
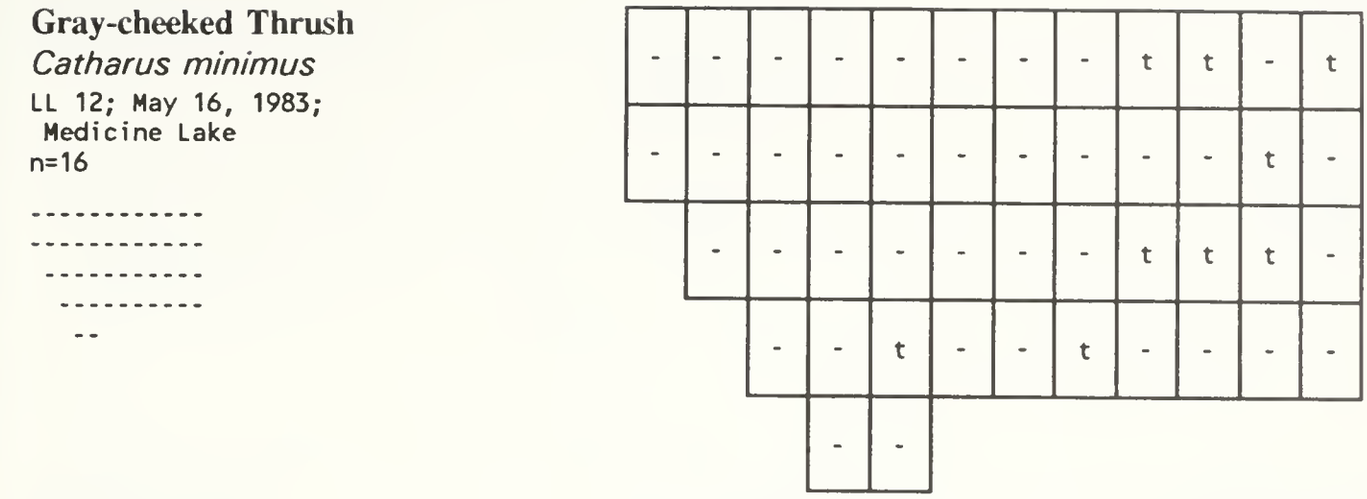


Gray-cheeked Thrush

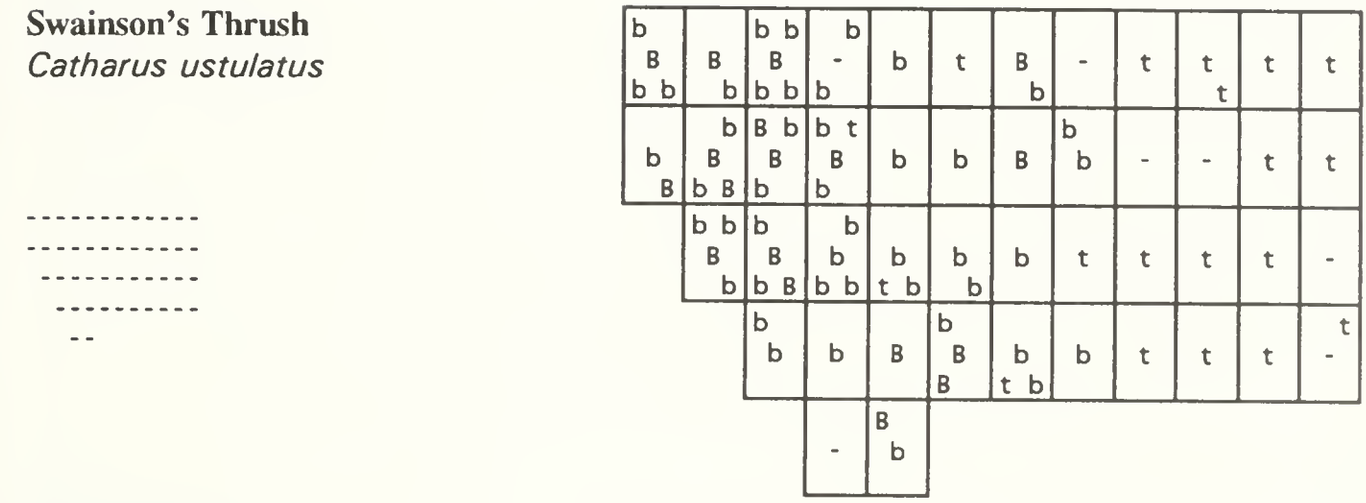
Catharus minimus

LL 12; May 16, 1983;
Medicine Lake
n=16



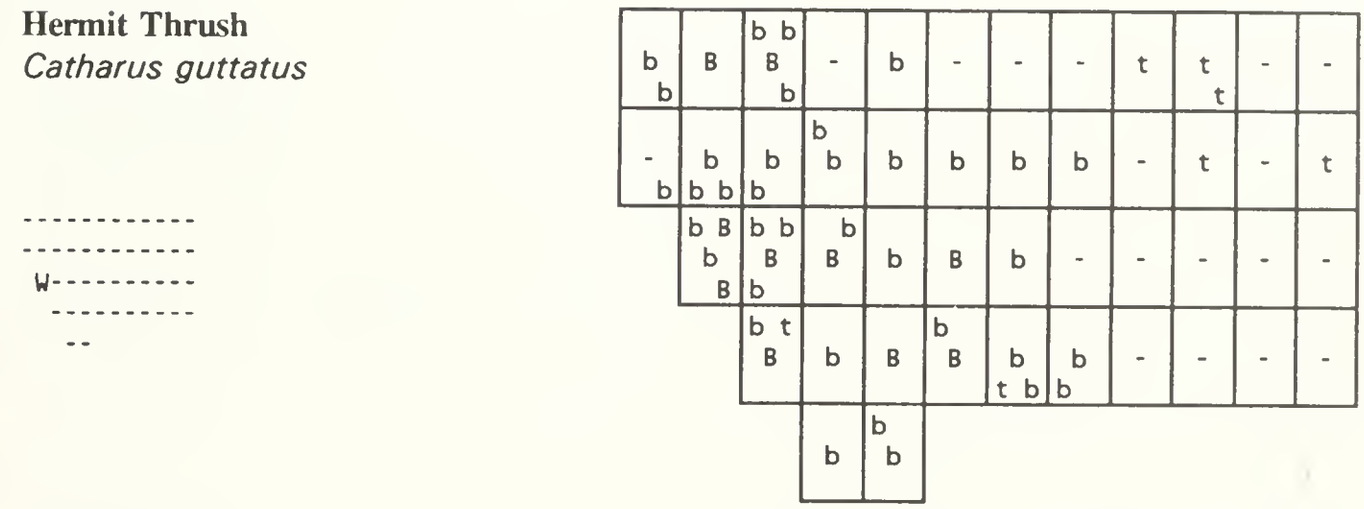
Swainson's Thrush

Catharus ustulatus



Hermit Thrush

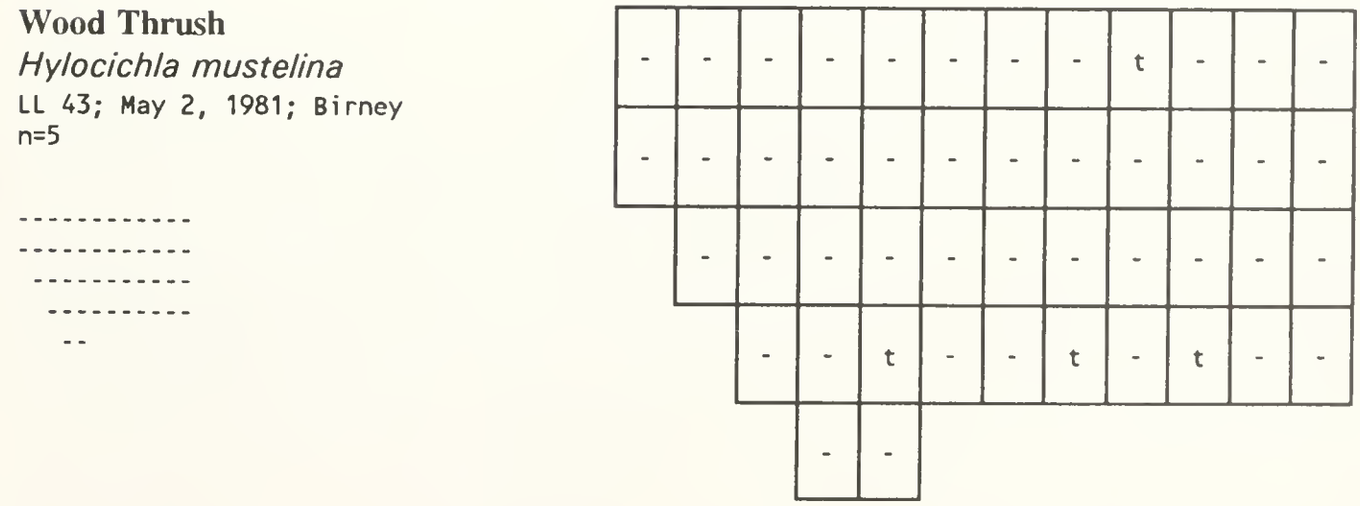
Catharus guttatus



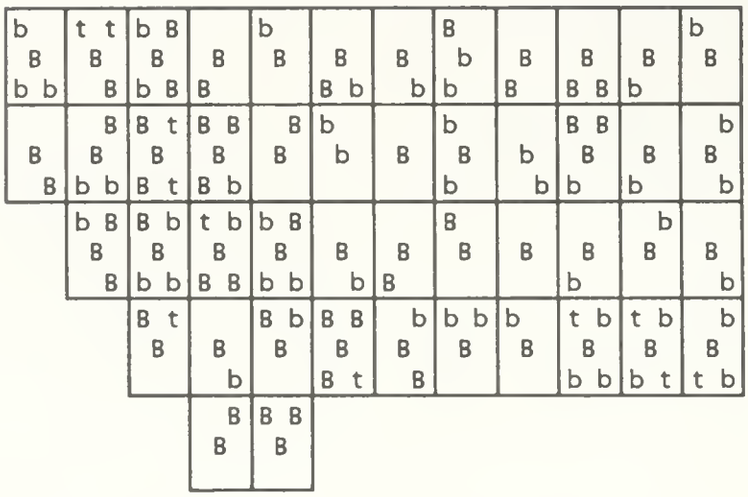
Wood Thrush

Hylocichla mustelina

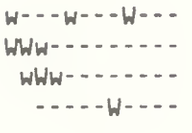
LL 43; May 2, 1981; Birney
n=5

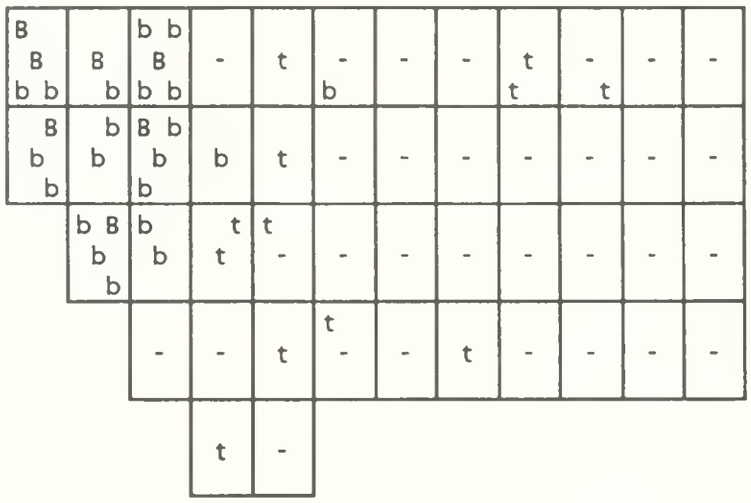


American Robin
Turdus migratorius



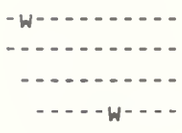
Varied Thrush
Ixoreus naevius

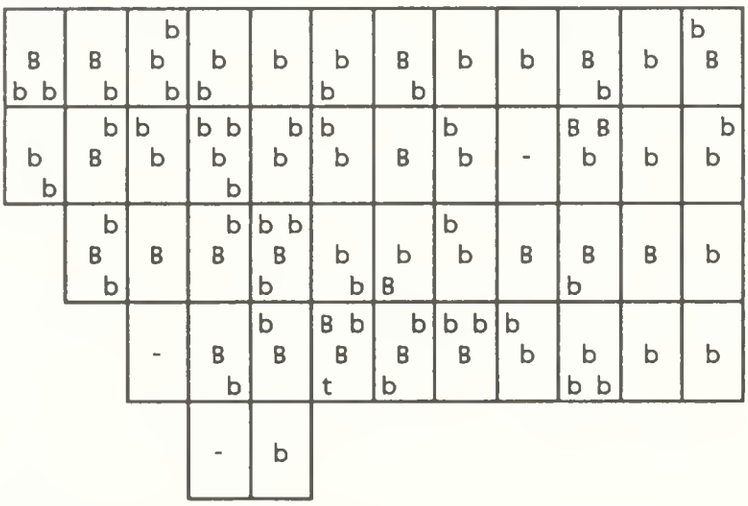




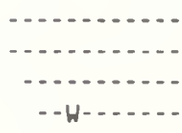
■ Mimidae

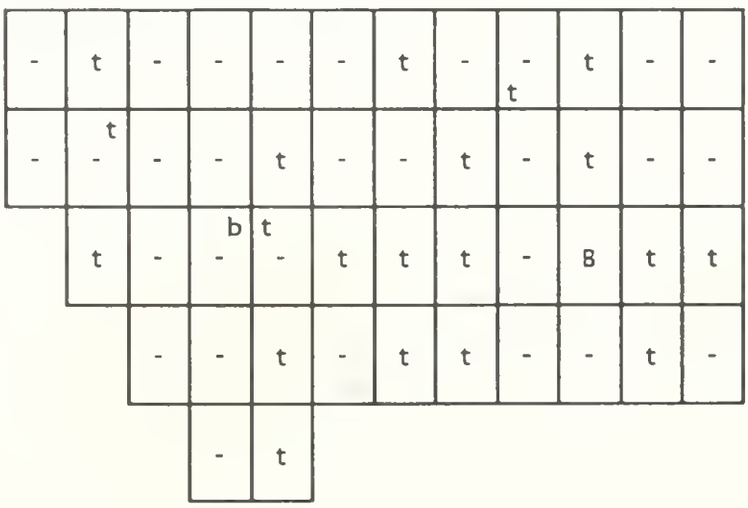
Gray Catbird
Dumetella carolinensis



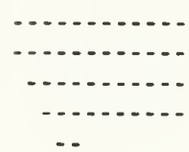


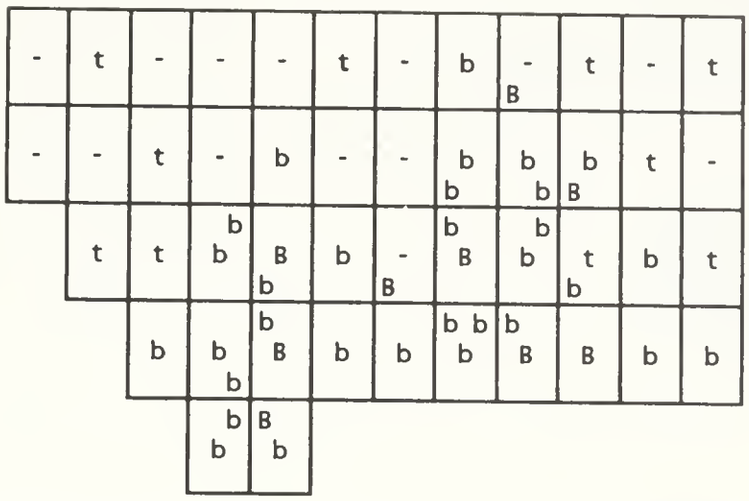
Northern Mockingbird
Mimus polyglottos



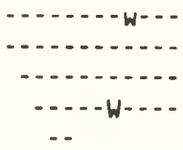


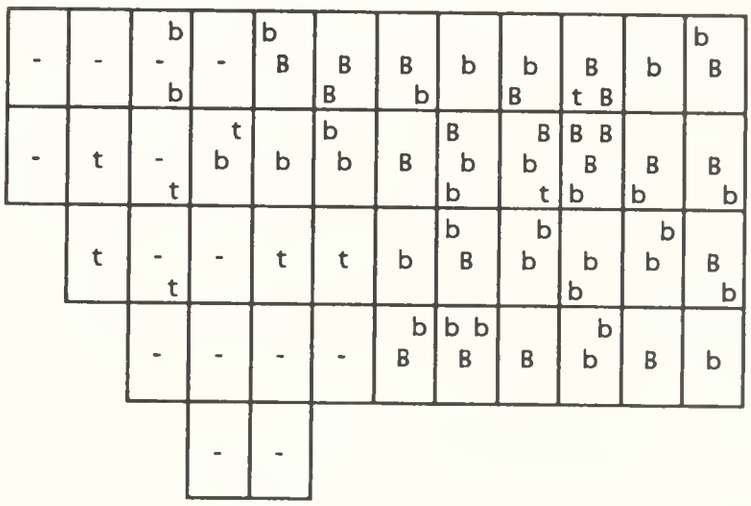
Sage Thrasher
Oreoscoptes montanus





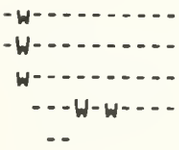
Brown Thrasher
Toxostoma rufum

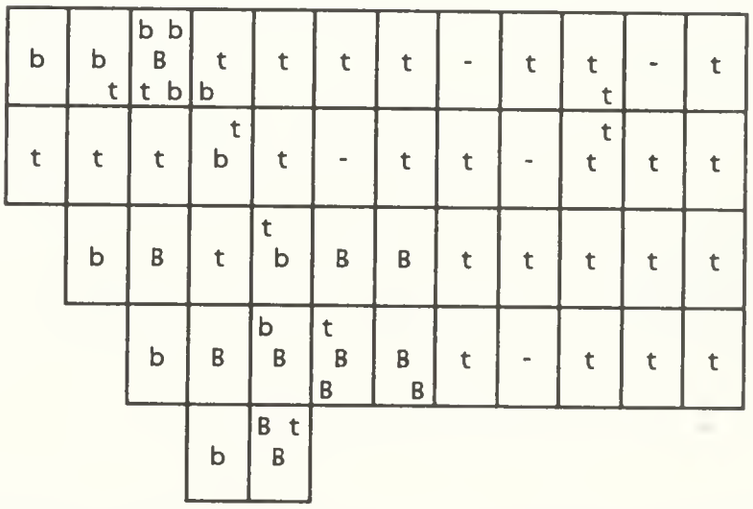




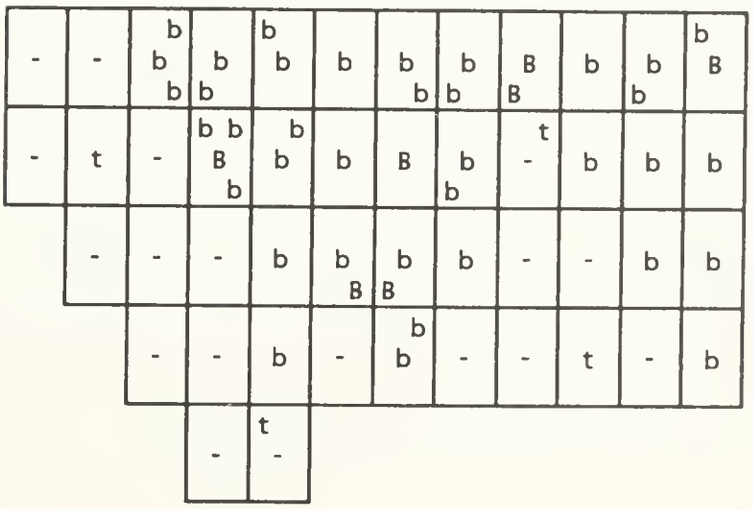
■ Motacillidae

American Pipit
Anthus rubescens
(formerly Water Pipit)



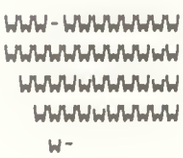


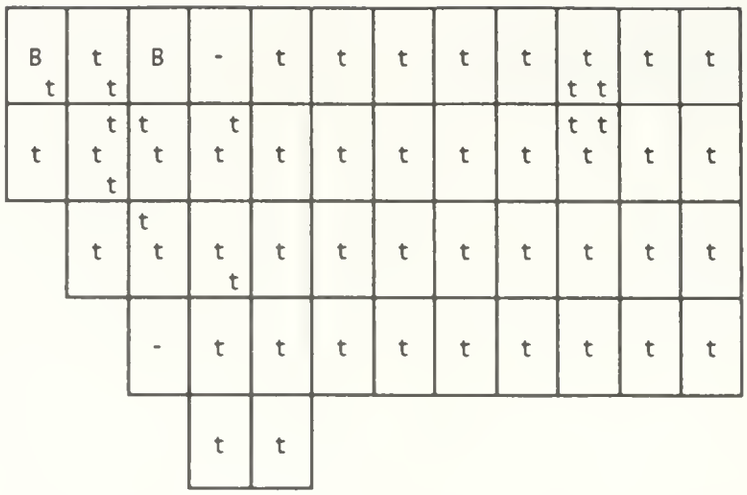
Sprague's Pipit
Anthus spragueii



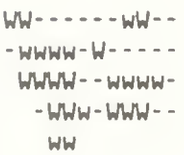
■ Bombycillidae

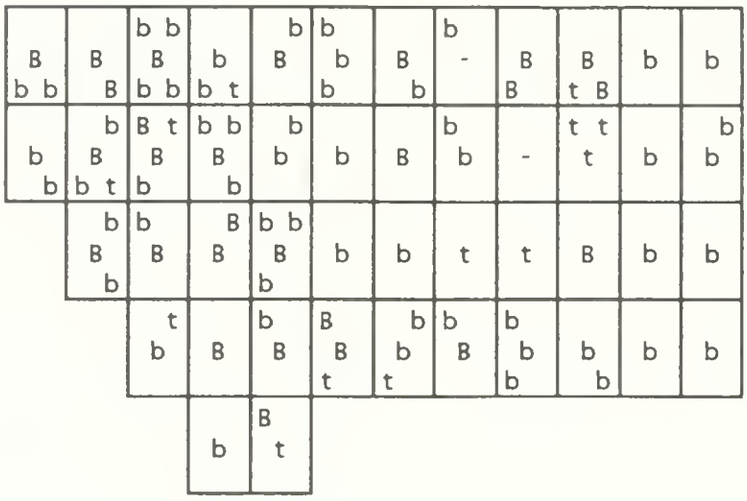
Bohemian Waxwing
Bombycilla garrulus





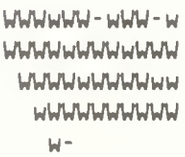
Cedar Waxwing
Bombycilla cedrorum

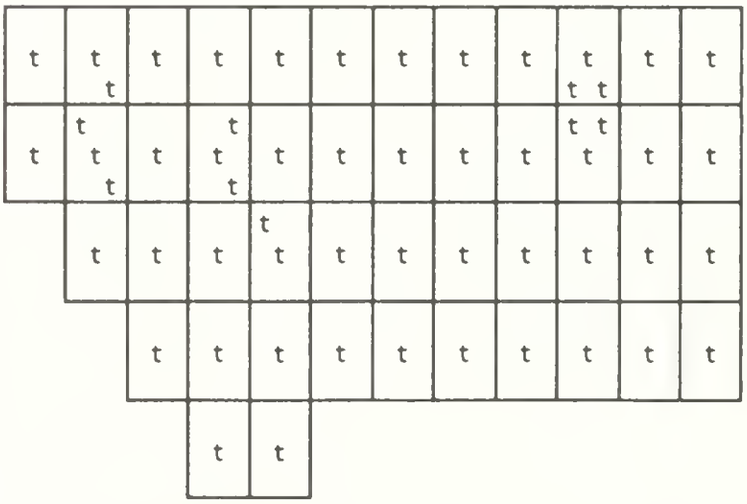




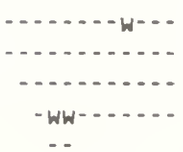
■ Laniidae

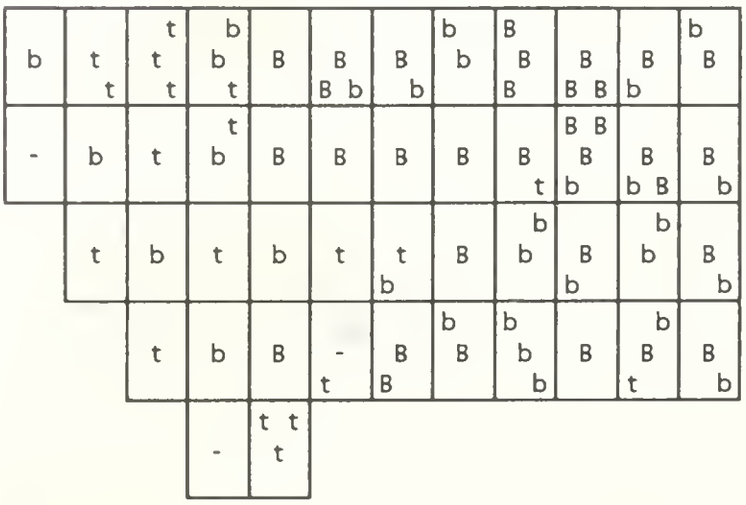
Northern Shrike
Lanius excubitor





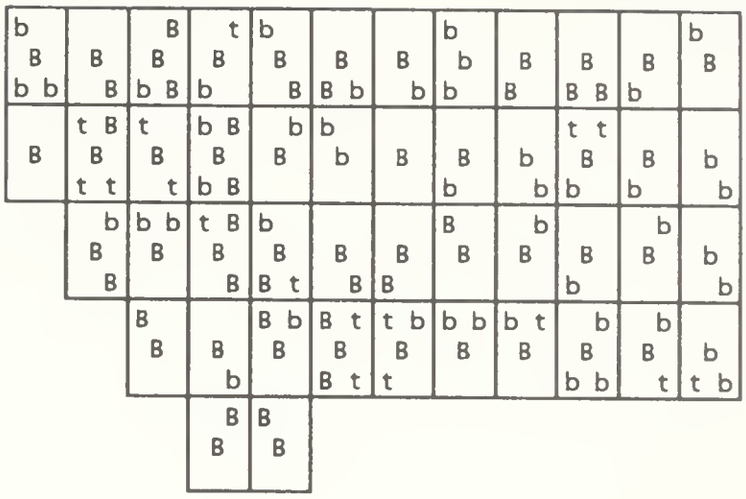
Loggerhead Shrike
Lanius ludovicianus
TES





European Starling
Sturnus vulgaris
(introduced)

WWW-WWWWW-W
WWWWWW-W-WW
WWW--WWW-
-WWW-WWW-W
WW



■ Vireonidae

Solitary Vireo
Vireo solitarius

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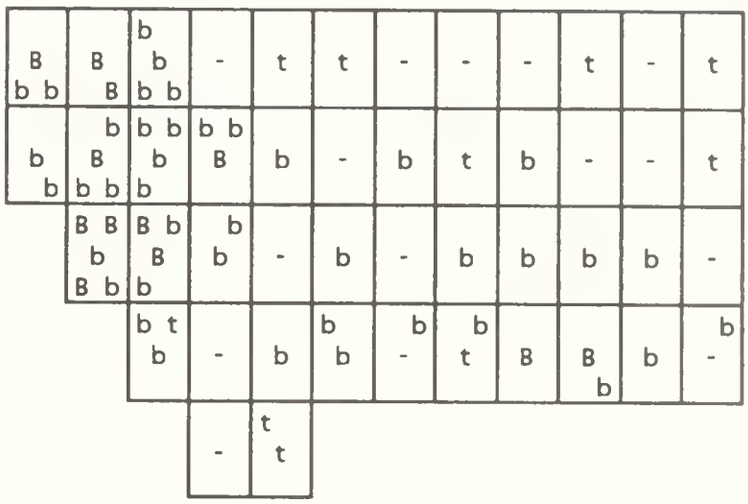

Warbling Vireo
Vireo gilvus

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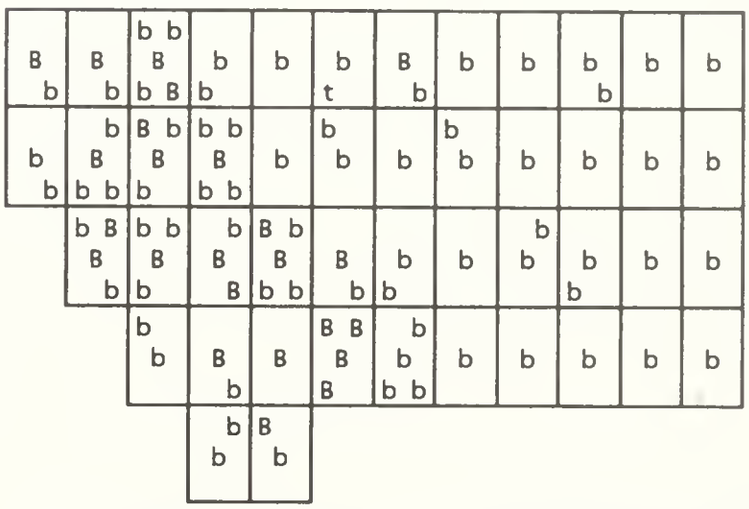

Philadelphia Vireo
Vireo philadelphicus
QLL 10D; July 30, 1984; Kiwanis Park below Ft. Peck dam
n=3

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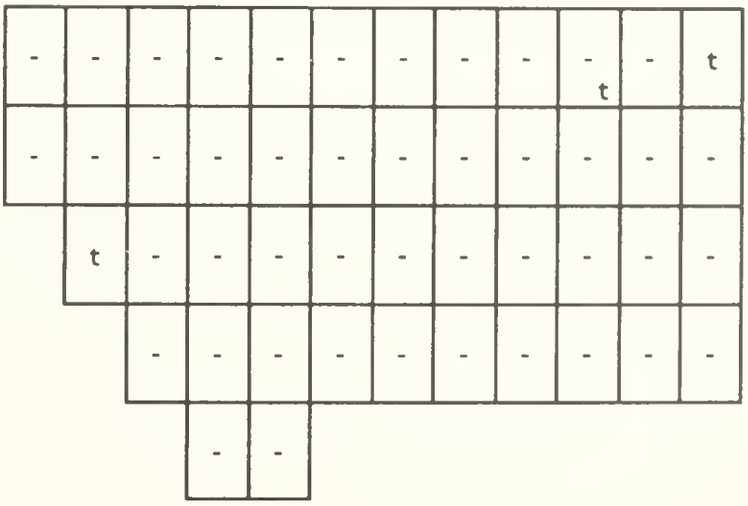
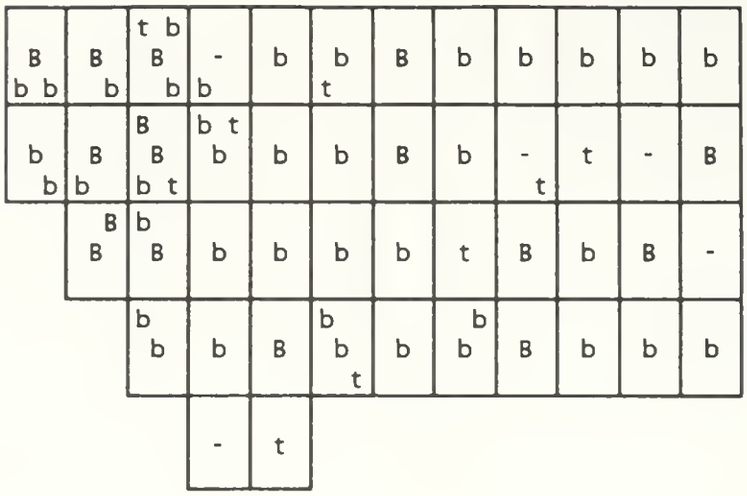


Red-eyed Vireo
Vireo olivaceus



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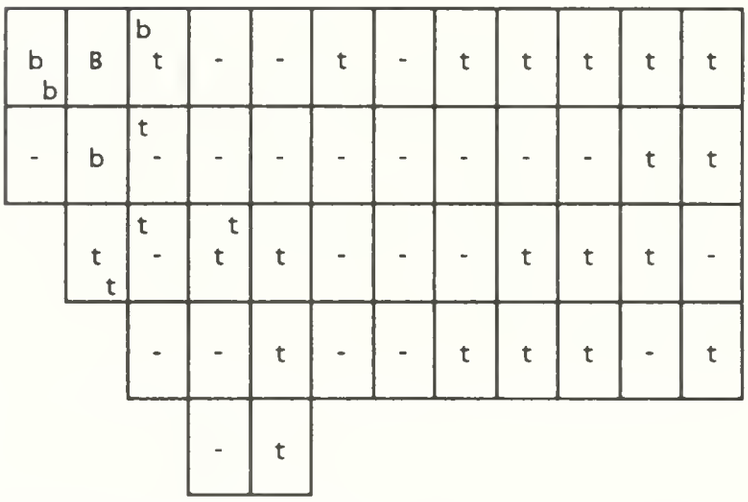
■ **Emberizidae**

Tennessee Warbler
Vermivora peregrina



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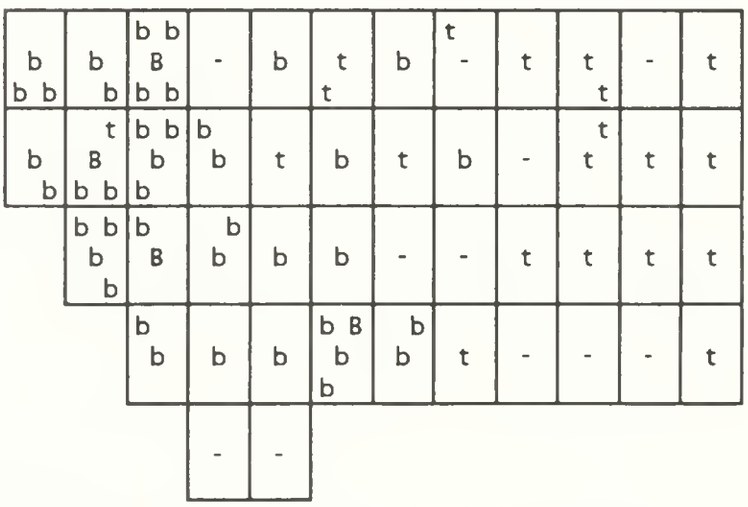
Orange-crowned Warbler
Vermivora celata



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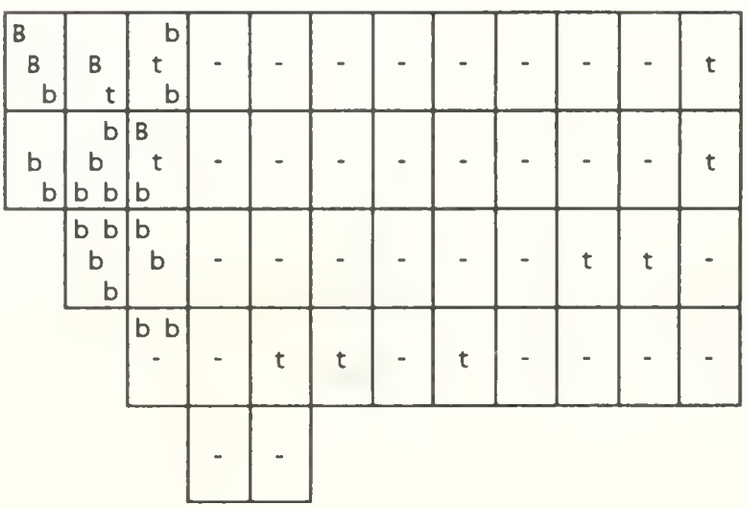
Nashville Warbler
Vermivora ruficapilla



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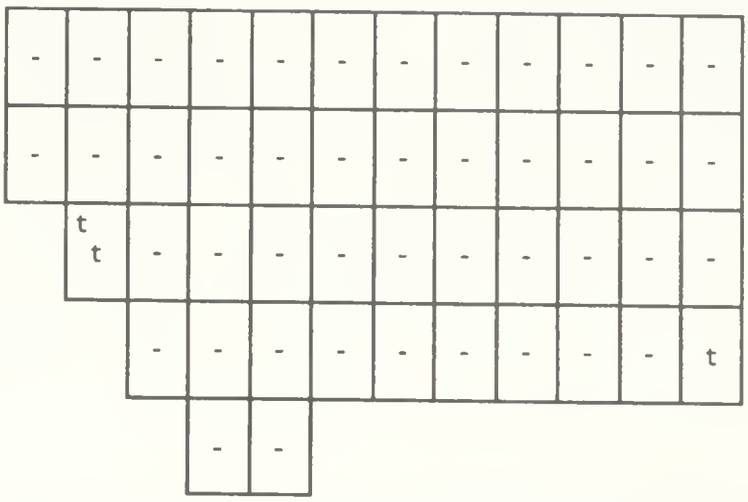
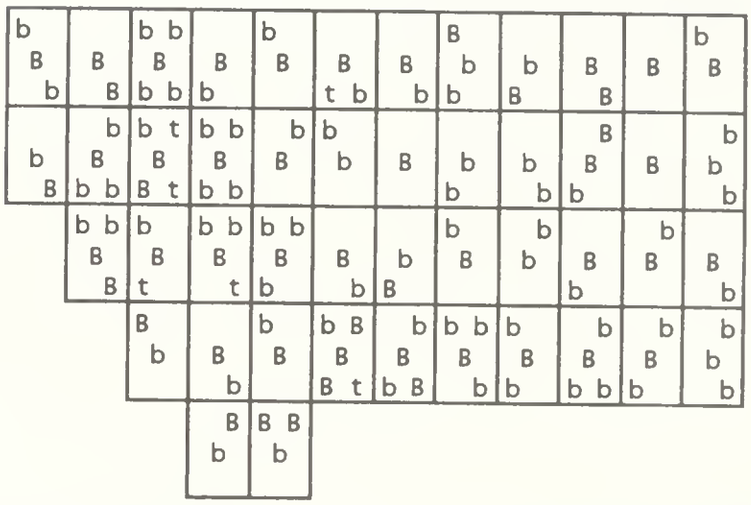
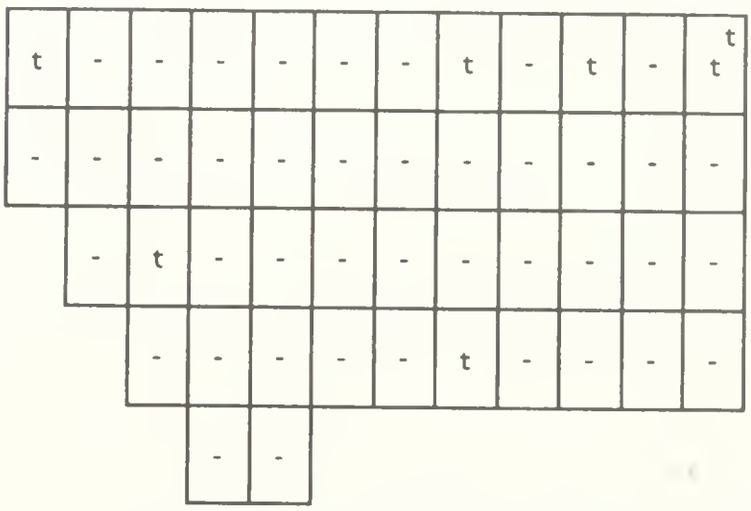
Northern Parula
Parula americana
QLL 25A; June 28, 1988;
West of Lolo
n=4



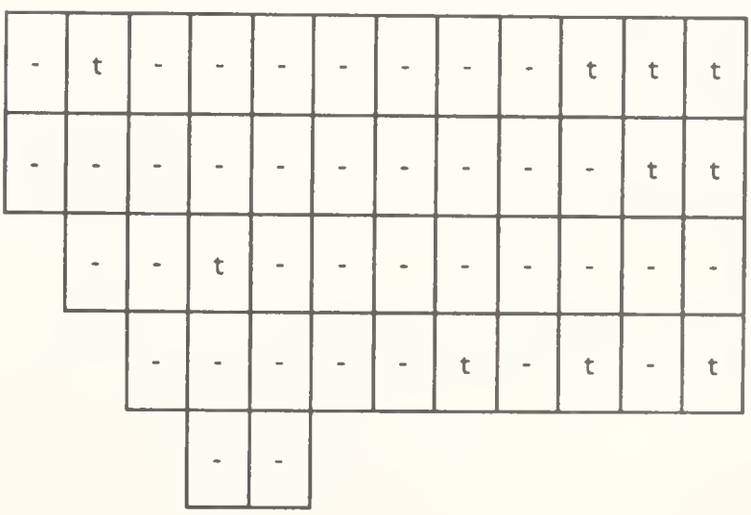
Yellow Warbler
Dendroica petechia



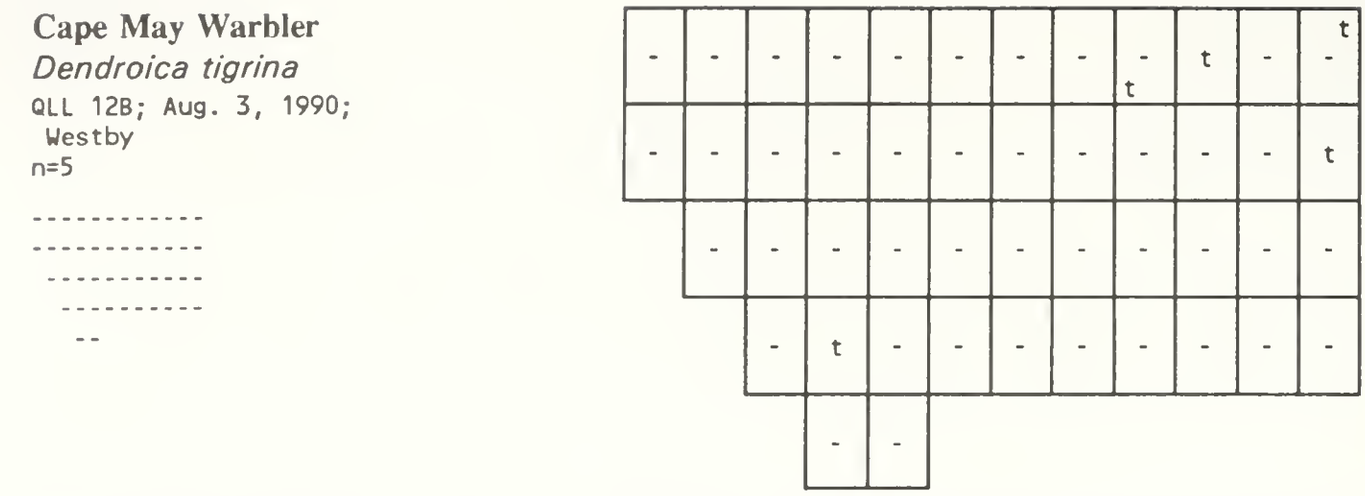
Chestnut-sided Warbler
Dendroica pensylvanica
QLL 12B; Aug. 16, 1990; Westby
n=7



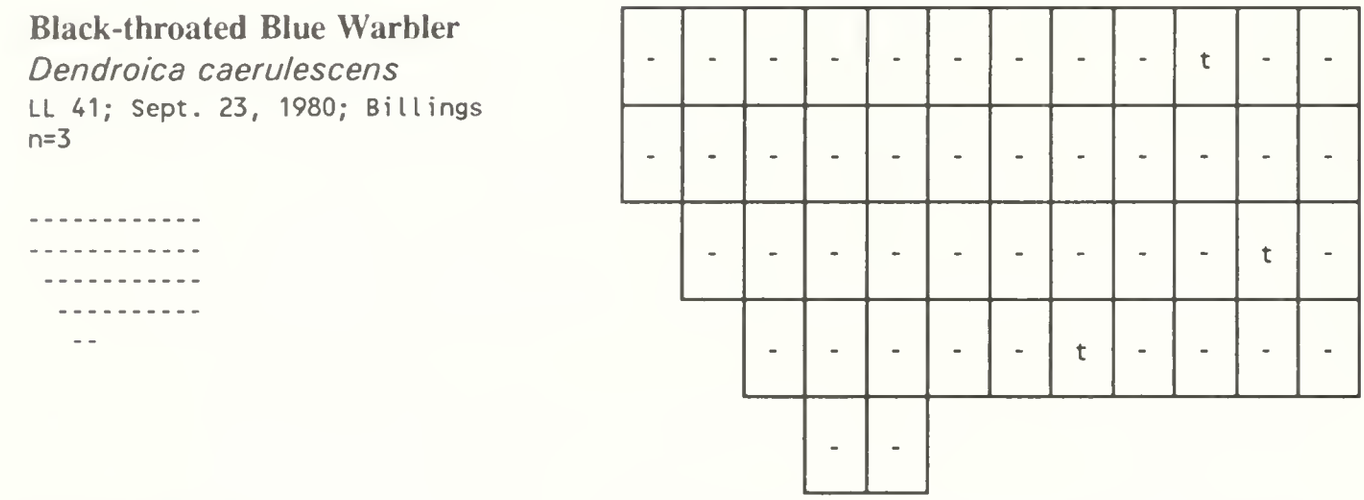
Magnolia Warbler
Dendroica magnolia
LL 10; May 17, 1981;
Ft. Peck
n=12



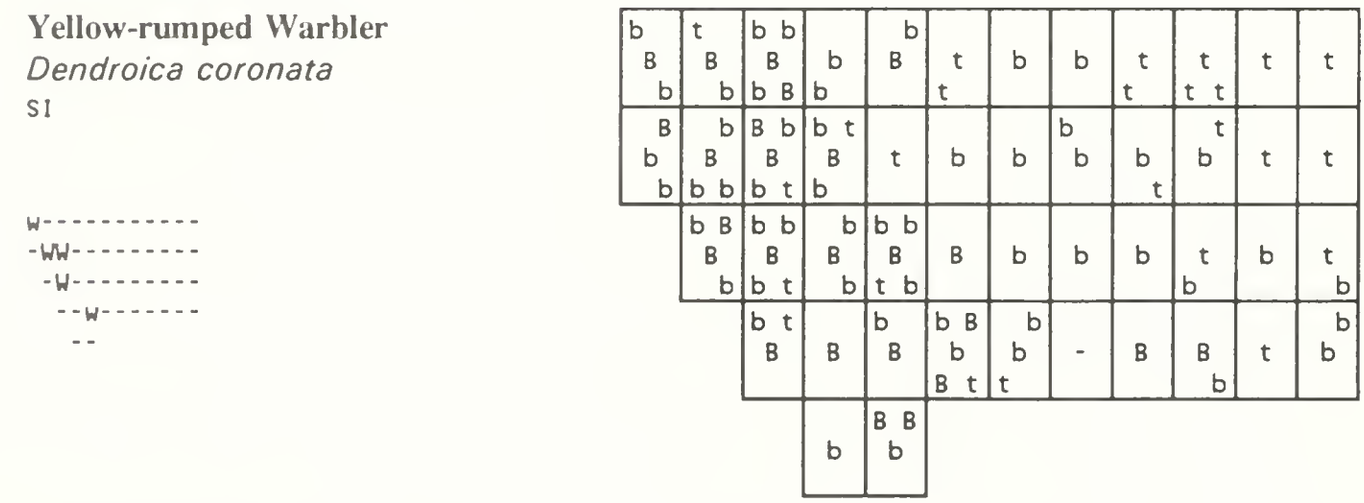
Cape May Warbler
Dendroica tigrina
QLL 12B; Aug. 3, 1990;
Westby
n=5



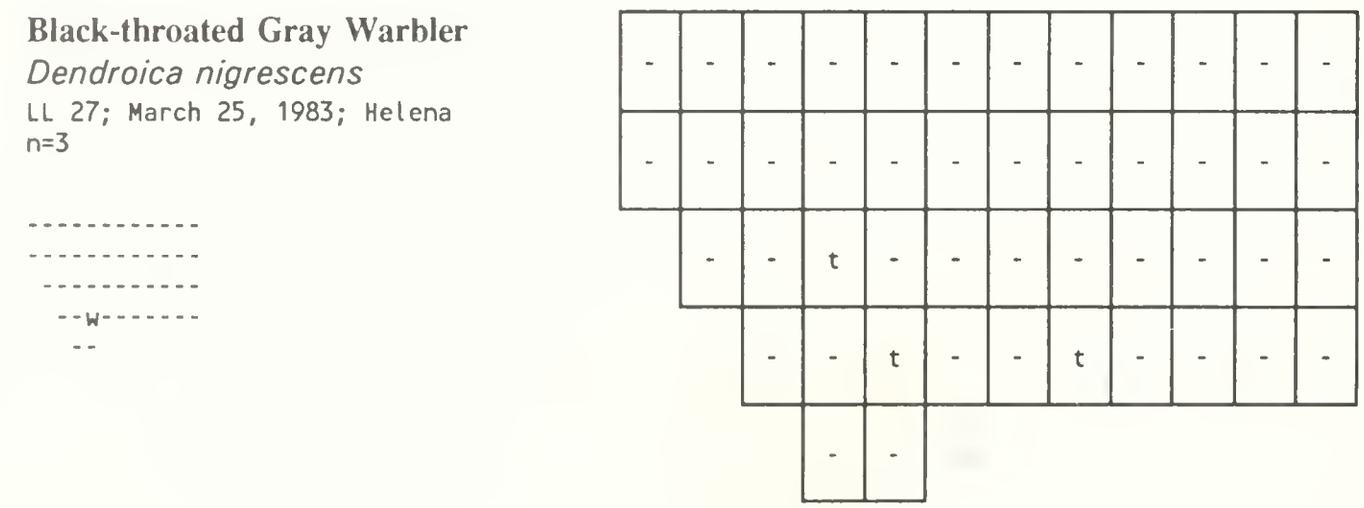
Black-throated Blue Warbler
Dendroica caerulescens
LL 41; Sept. 23, 1980; Billings
n=3



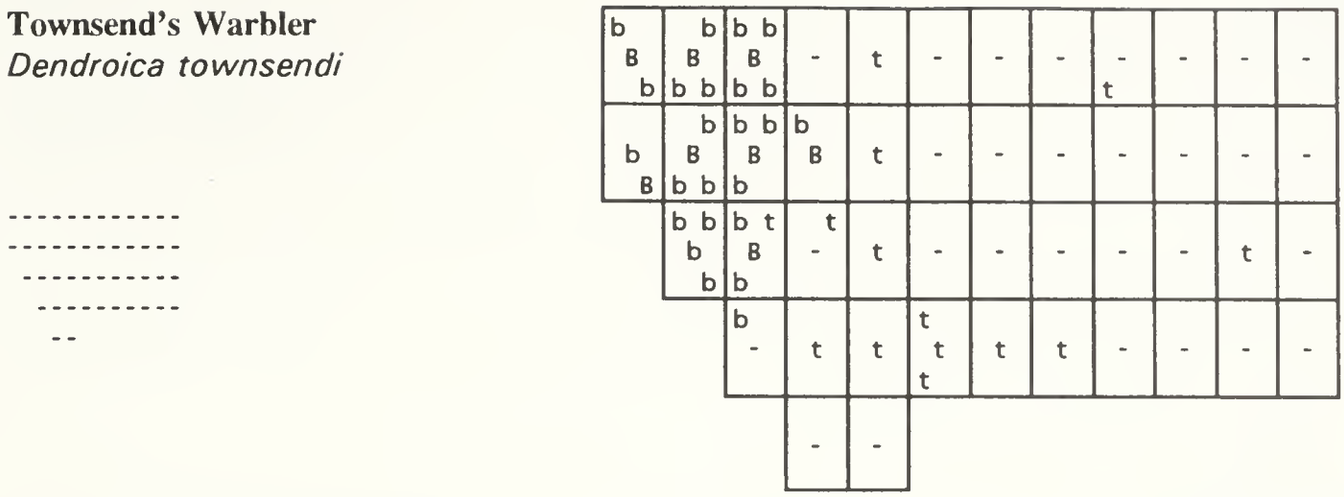
Yellow-rumped Warbler
Dendroica coronata
SI



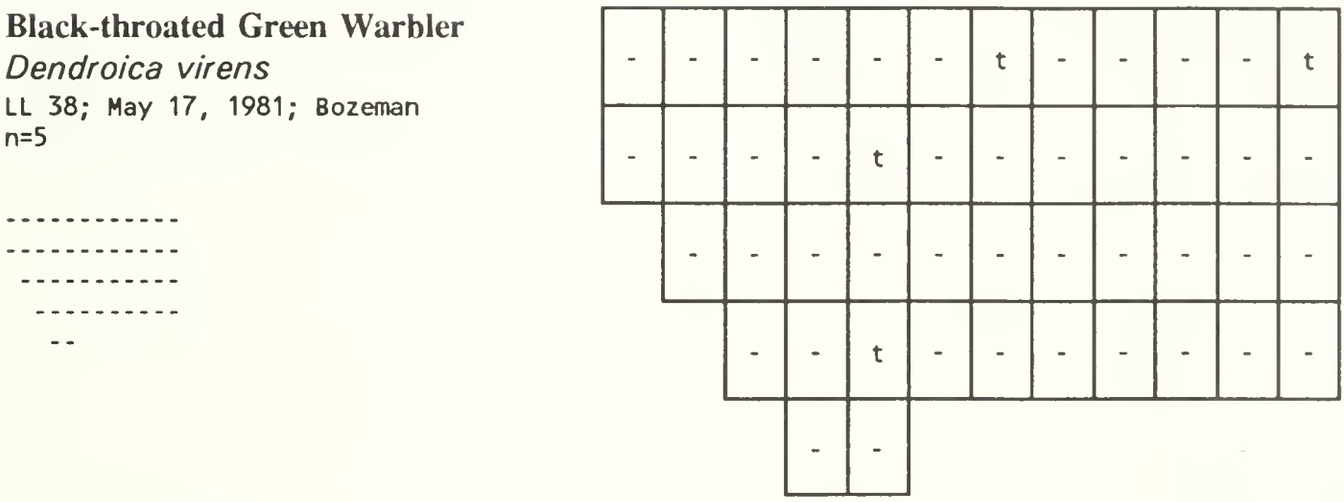
Black-throated Gray Warbler
Dendroica nigrescens
LL 27; March 25, 1983; Helena
n=3



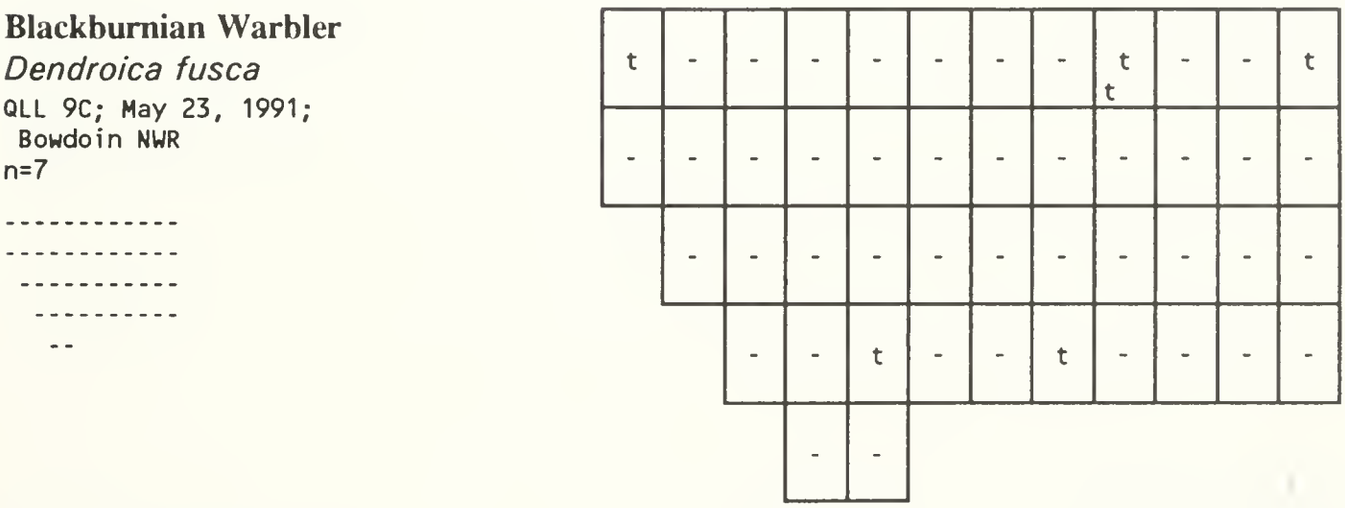
Townsend's Warbler
Dendroica townsendi



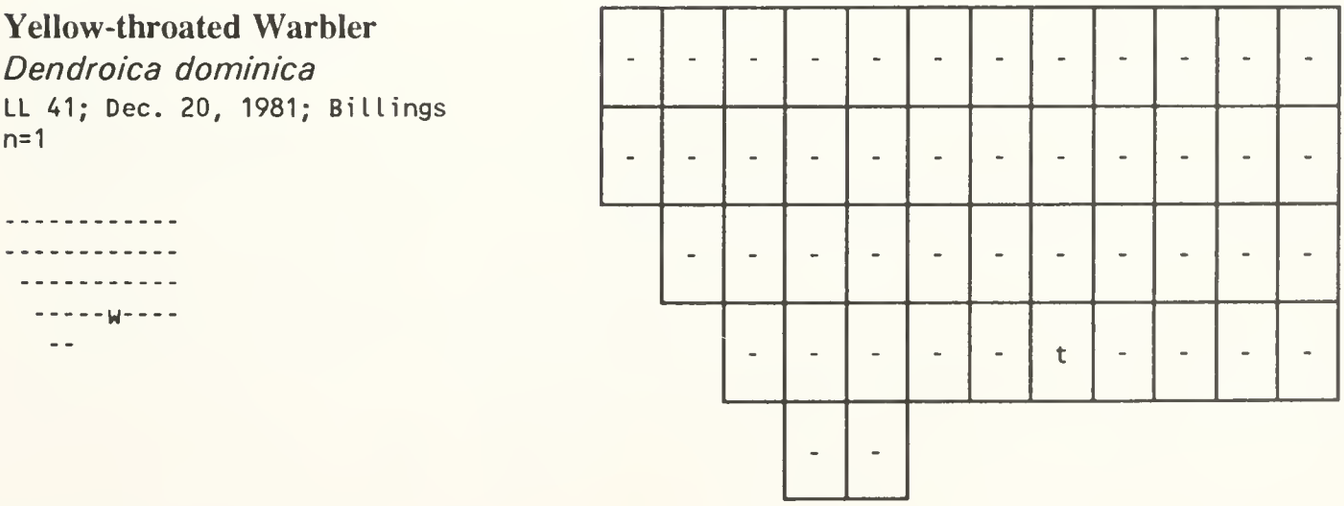
Black-throated Green Warbler
Dendroica virens
LL 38; May 17, 1981; Bozeman
n=5



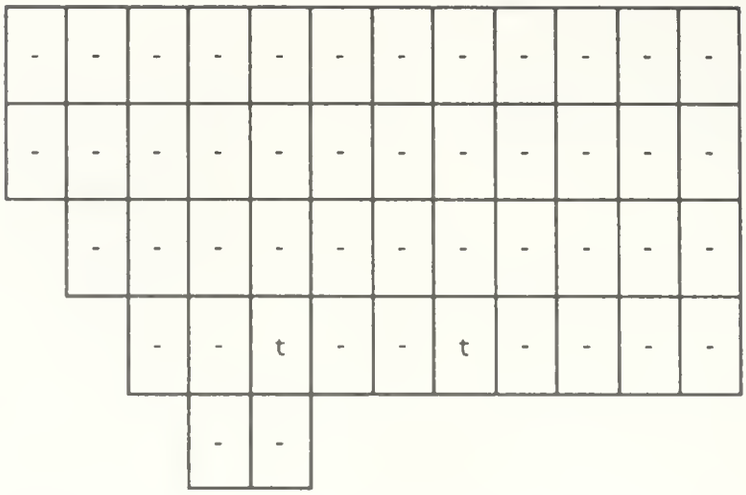
Blackburnian Warbler
Dendroica fusca
QLL 9C; May 23, 1991;
Bowdoin NWR
n=7



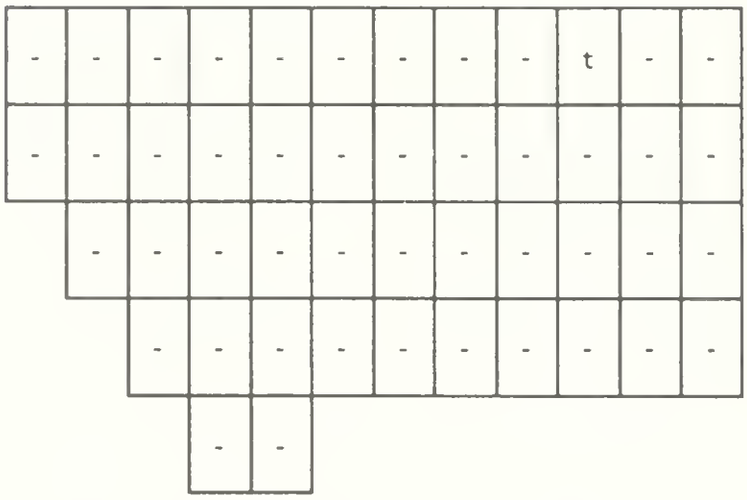
Yellow-throated Warbler
Dendroica dominica
LL 41; Dec. 20, 1981; Billings
n=1



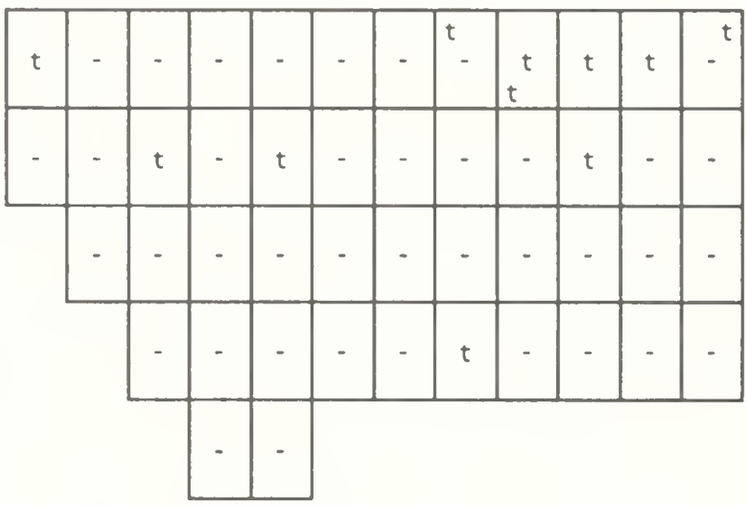
Pine Warbler
Dendroica pinus
QLL 12B; Aug. 15, 1990;
Westby
n=3



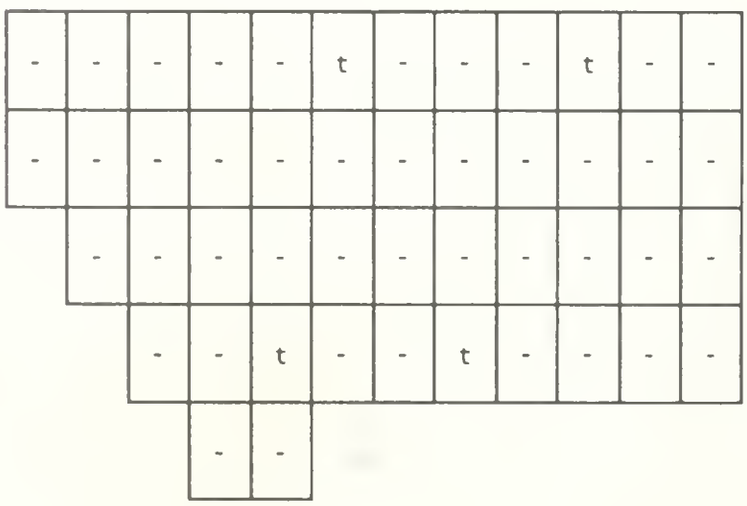
Prairie Warbler
Dendroica discolor
LL 10; Sept. 5, 1973; Ft. Peck
n=1



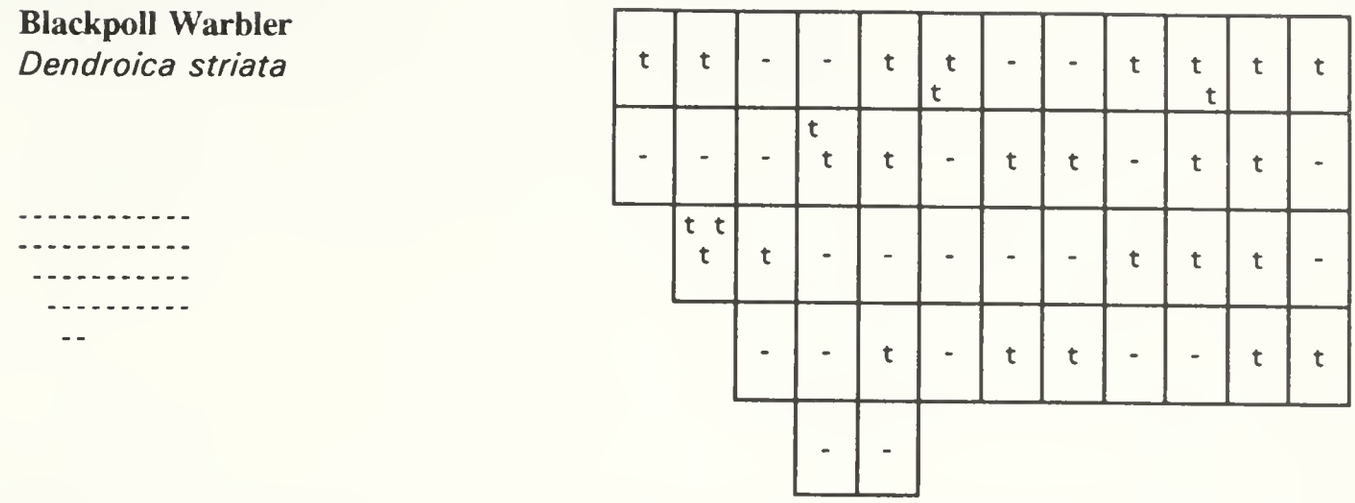
Palm Warbler
Dendroica palmarum
QLL 12B; Sept. 30, 1990; Westby
n=15



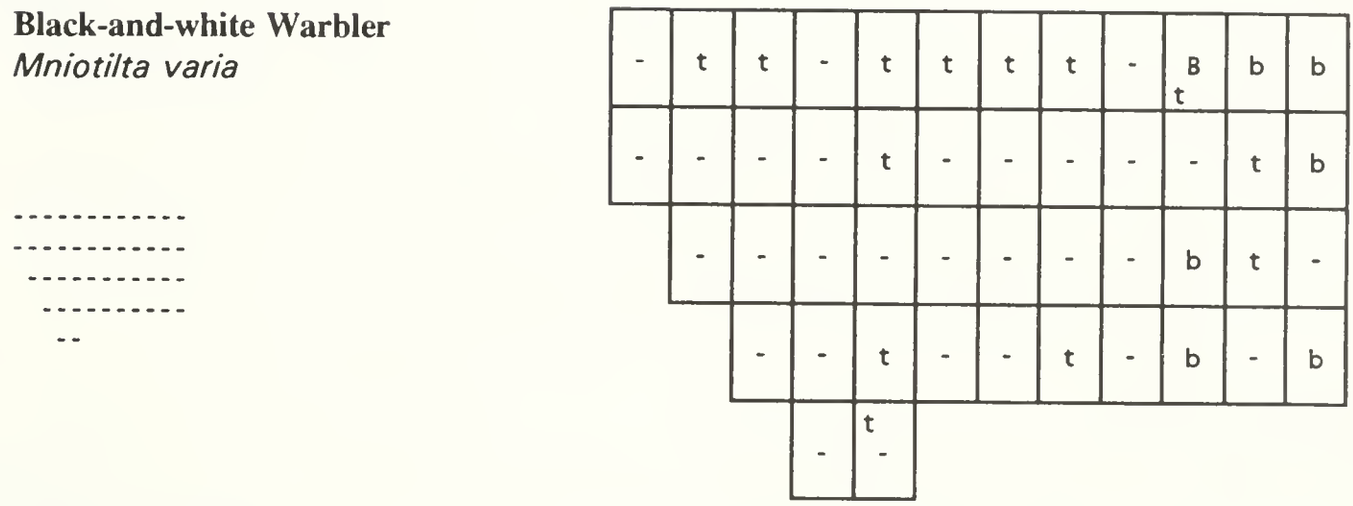
Bay-breasted Warbler
Dendroica castanea
LL 41; April 29, 1981
n=5



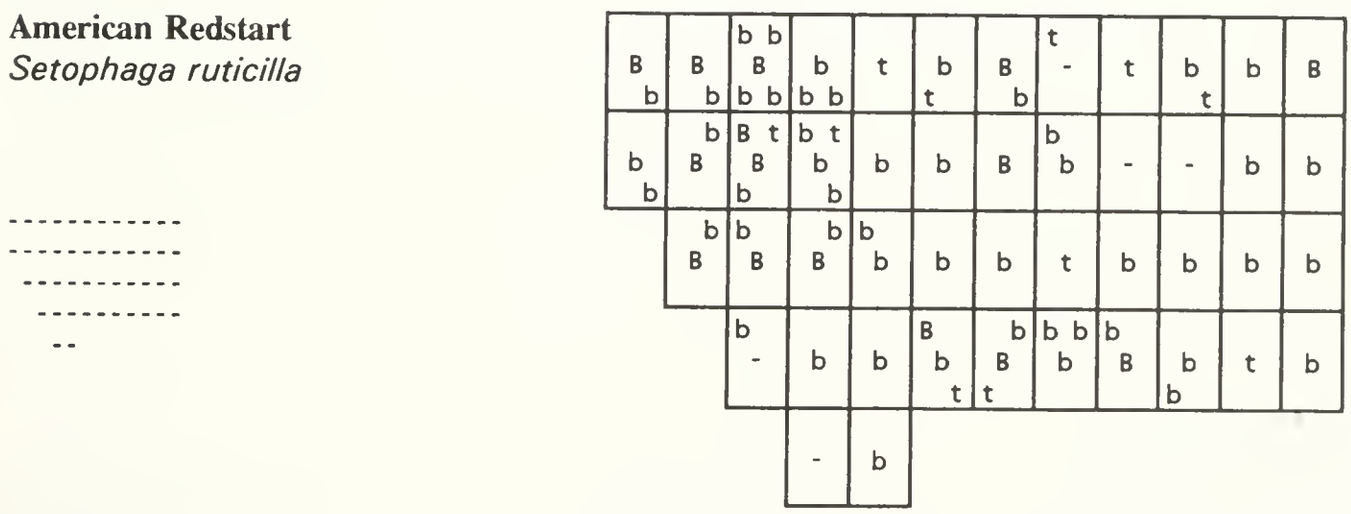
Blackpoll Warbler
Dendroica striata



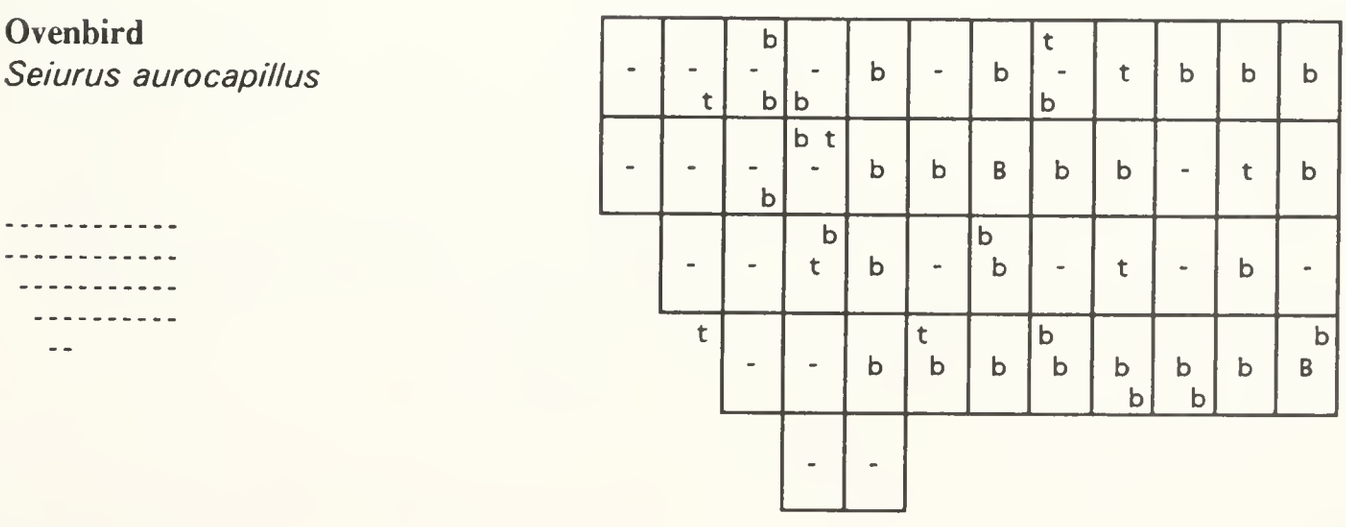
Black-and-white Warbler
Mniotilta varia



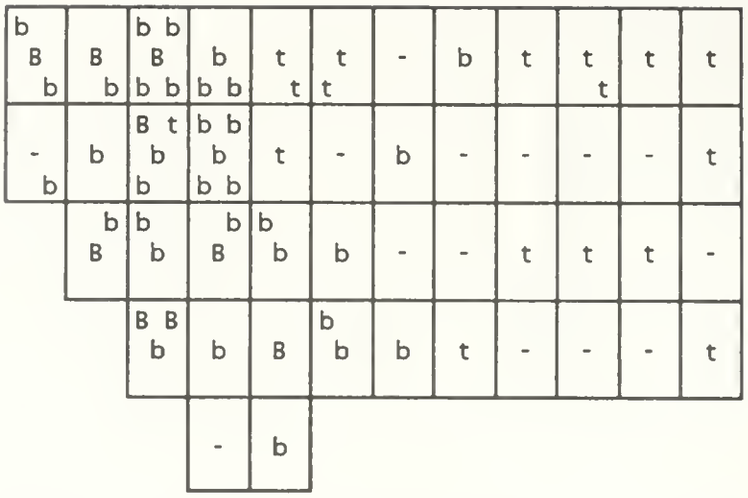
American Redstart
Setophaga ruticilla



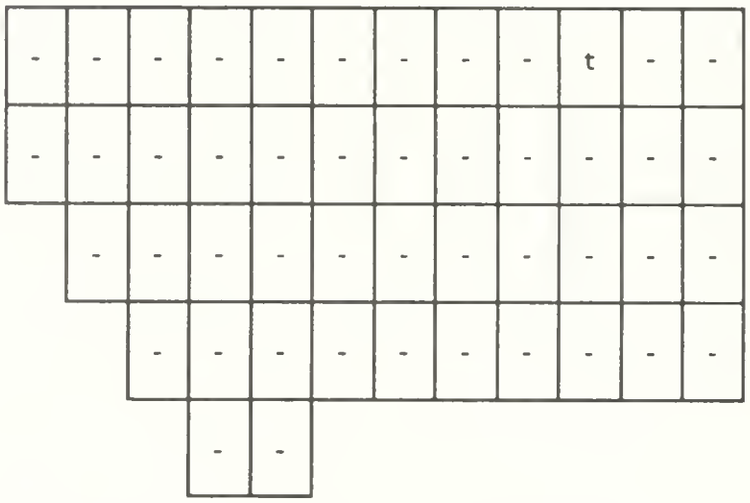
Ovenbird
Seiurus aurocapillus



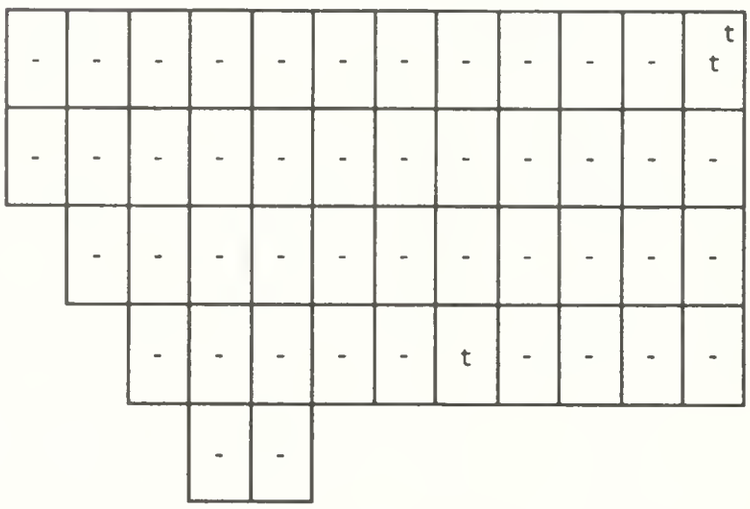
Northern Waterthrush
Seiurus noveboracensis



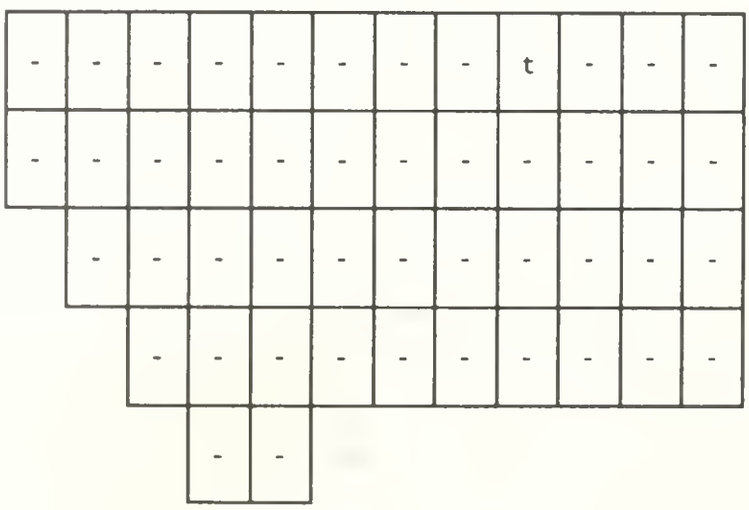
Kentucky Warbler
Oporornis formosus
LL 10; Oct. 19, 1979; Ft. Peck
n=1



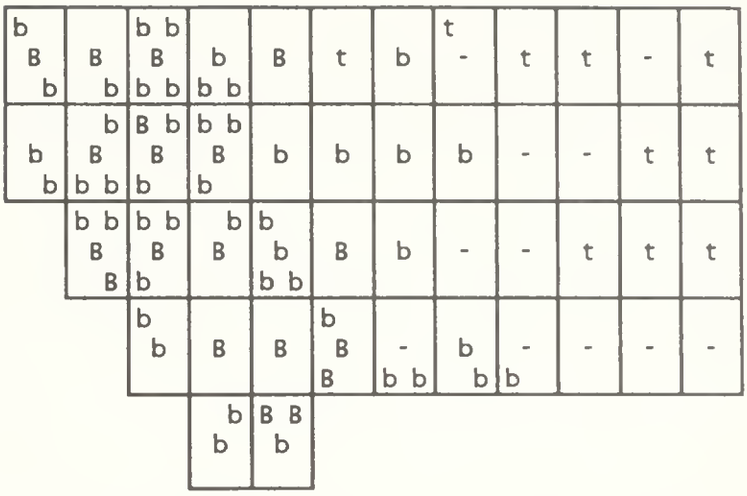
Connecticut Warbler
Oporornis agilis
QLL 12B; September 5, 1990 ; Westby
n=3



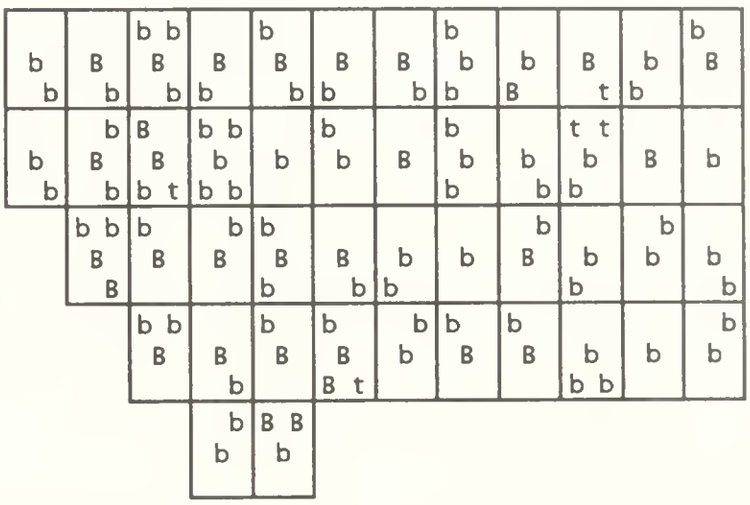
Mourning Warbler
Oporornis philadelphia
LL 9; June 9, 1969;
Bowdoin NWR
n=1



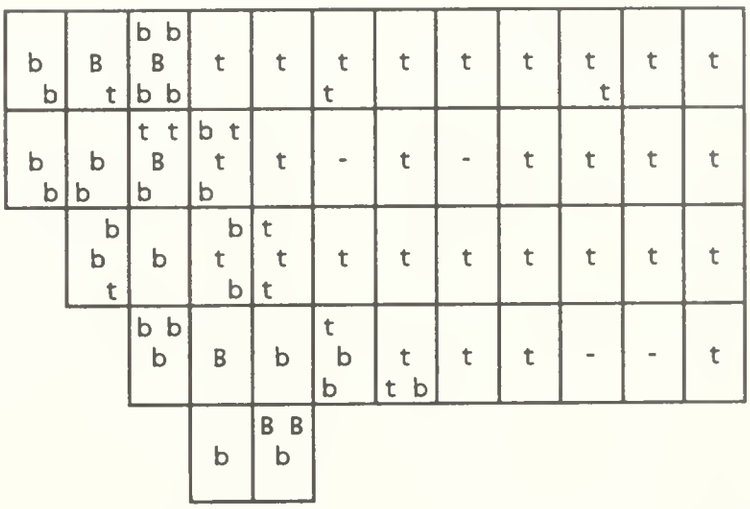
MacGillivray's Warbler
Oporornis tolmiei



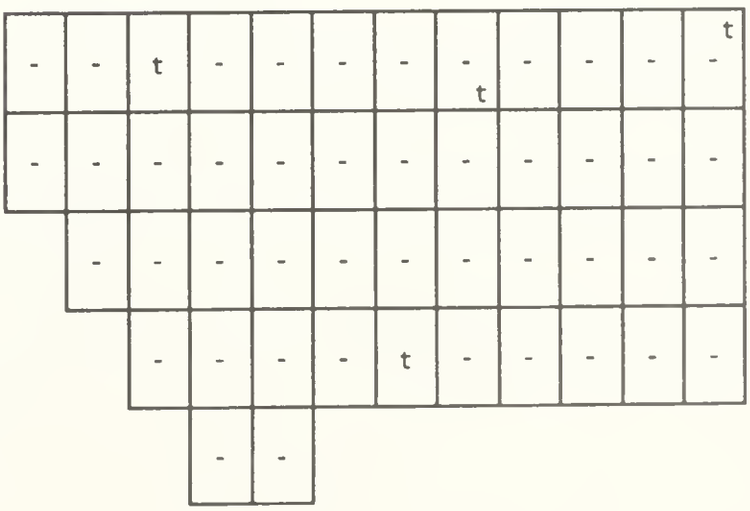
Common Yellowthroat
Geothlypis trichas



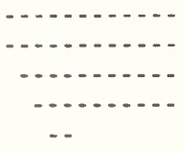
Wilson's Warbler
Wilsonia pusilla

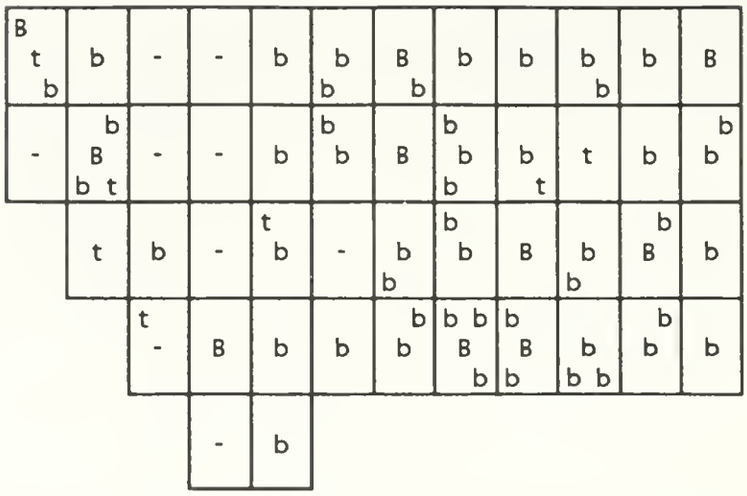


Canada Warbler
Wilsonia canadensis
QLL 12B; Aug. 15, 1990;
Westby
n=4



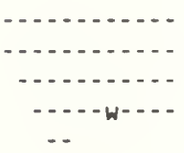
Yellow-breasted Chat
Icteria virens

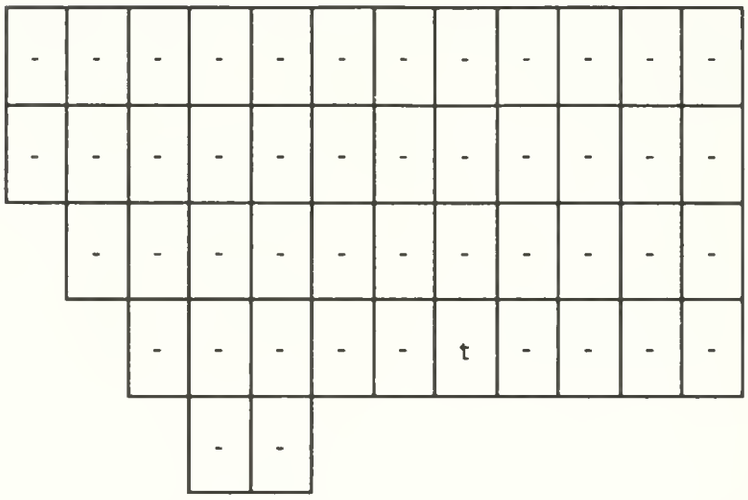




Summer Tanager
Piranga rubra

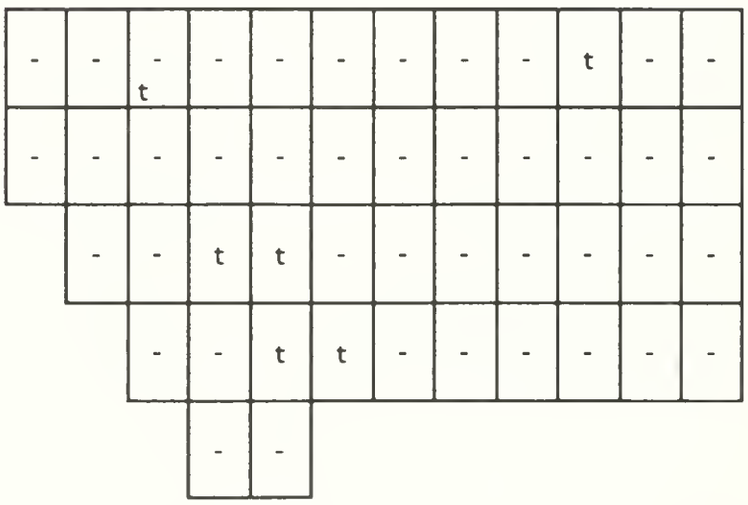
LL 41; Nov. 18, 1981; Billings
n=1



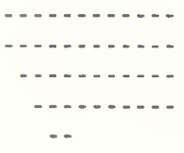


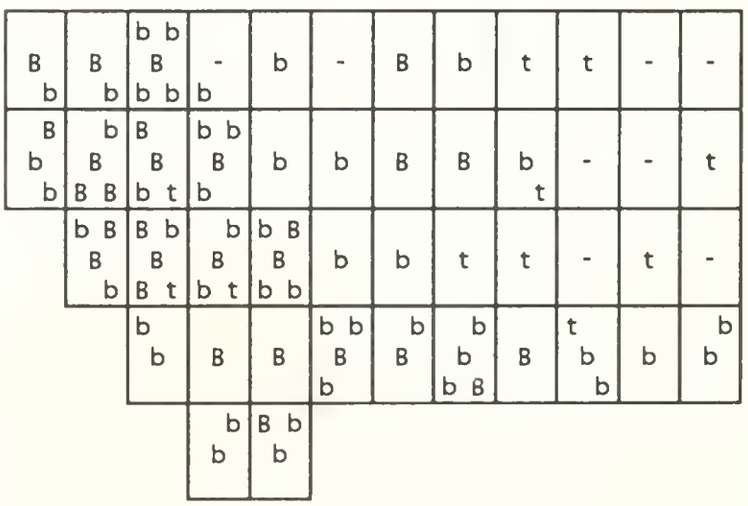
Scarlet Tanager
Piranga olivacea

QLL 3C; July 16, 1991; Emery Bay, Hungry Horse Reservoir
n=6

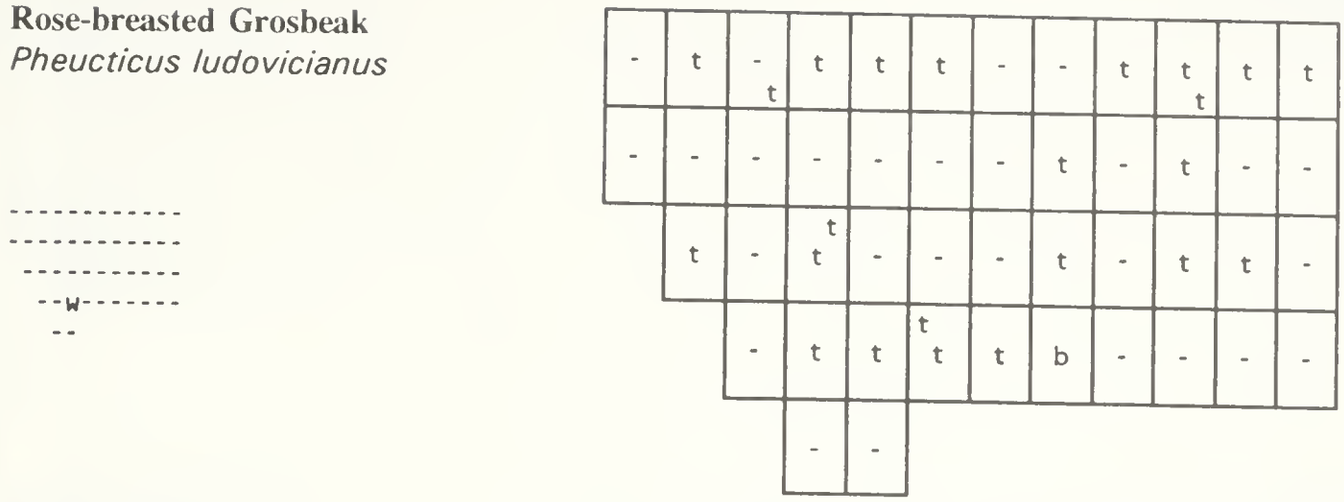


Western Tanager
Piranga ludoviciana

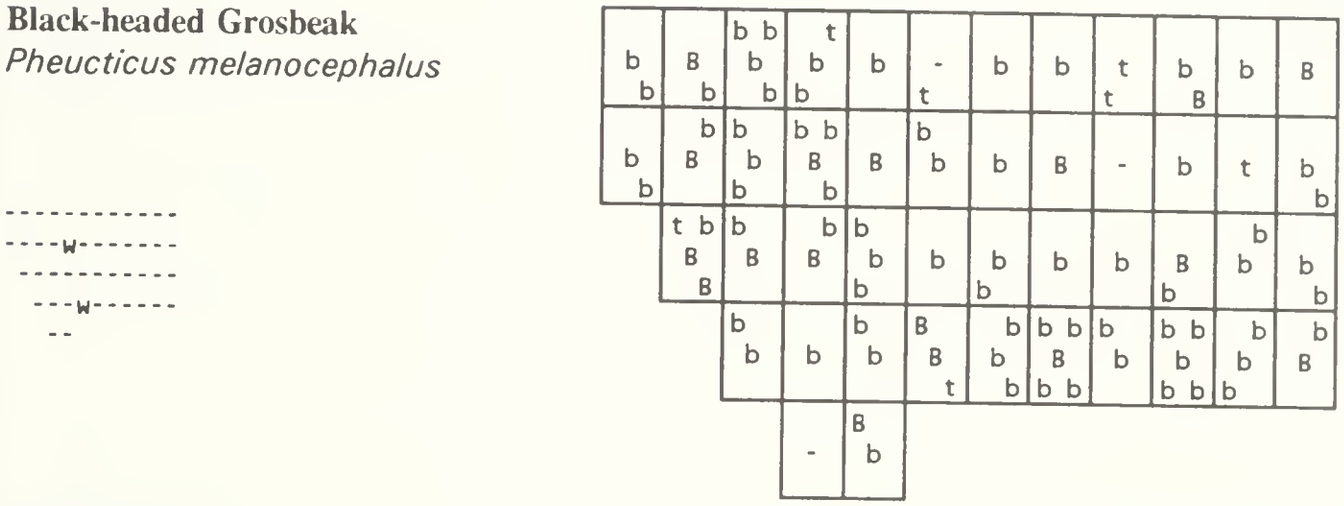




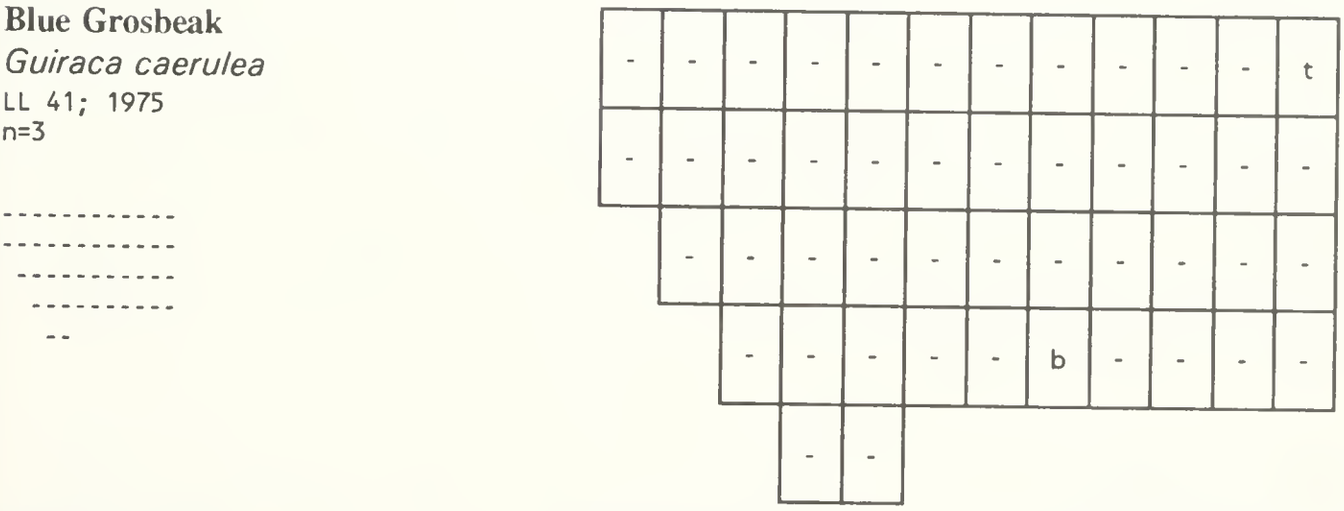
Rose-breasted Grosbeak
Pheucticus ludovicianus



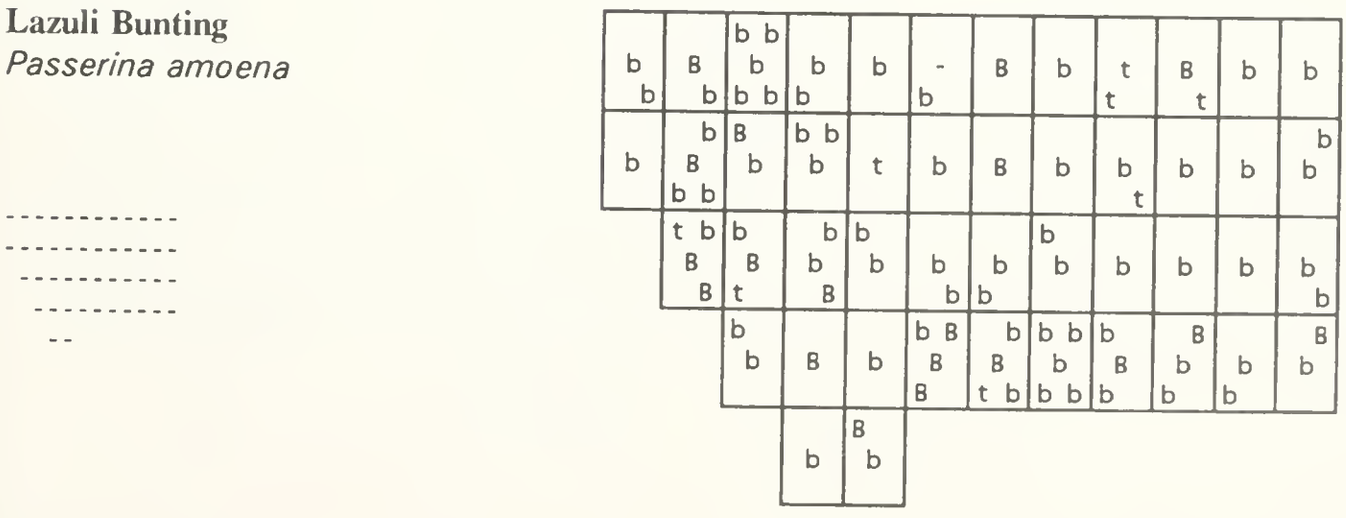
Black-headed Grosbeak
Pheucticus melanocephalus



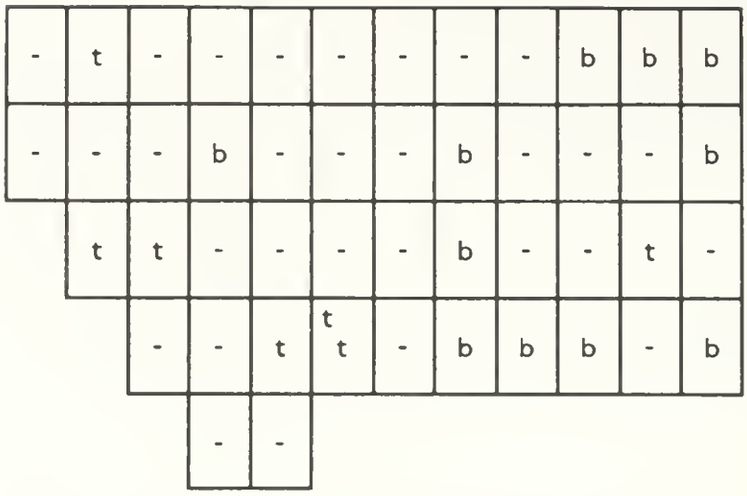
Blue Grosbeak
Guiraca caerulea
LL 41; 1975
n=3



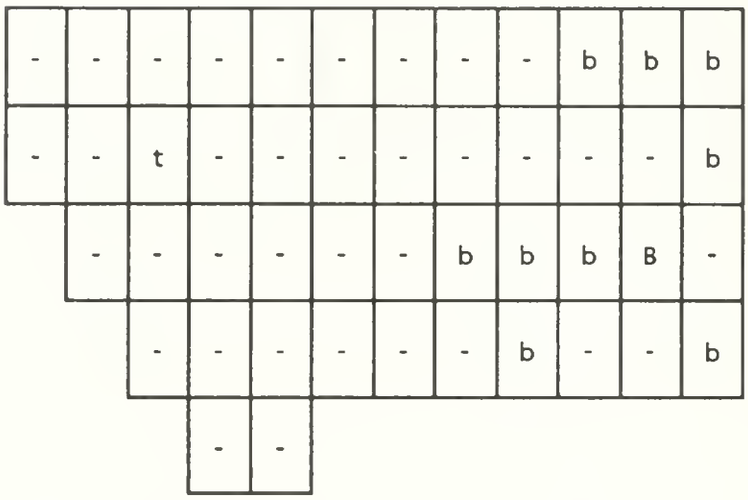
Lazuli Bunting
Passerina amoena



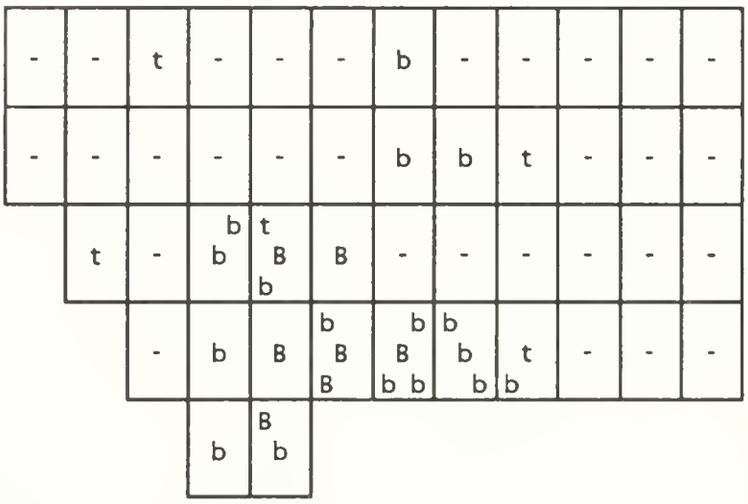
Indigo Bunting
Passerina cyanea



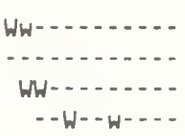
Dickcissel
Spiza americana
n=14 TES

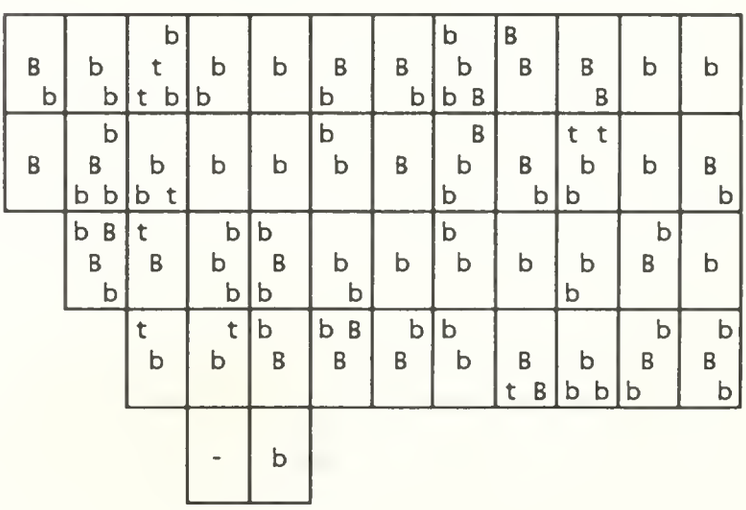


Green-tailed Towhee
Pipilo chlorurus

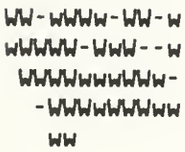


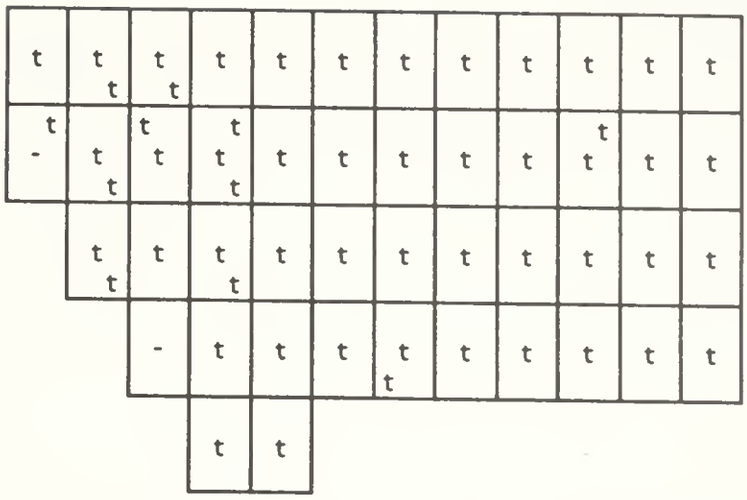
Rufous-sided Towhee
Pipilo erythrophthalmus



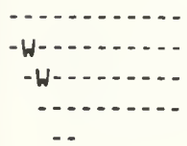


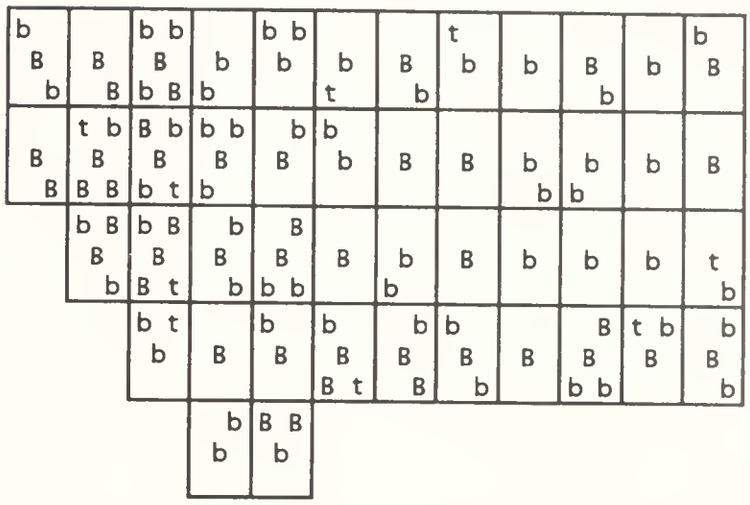
American Tree Sparrow
Spizella arborea



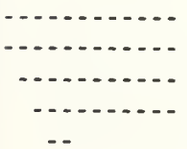


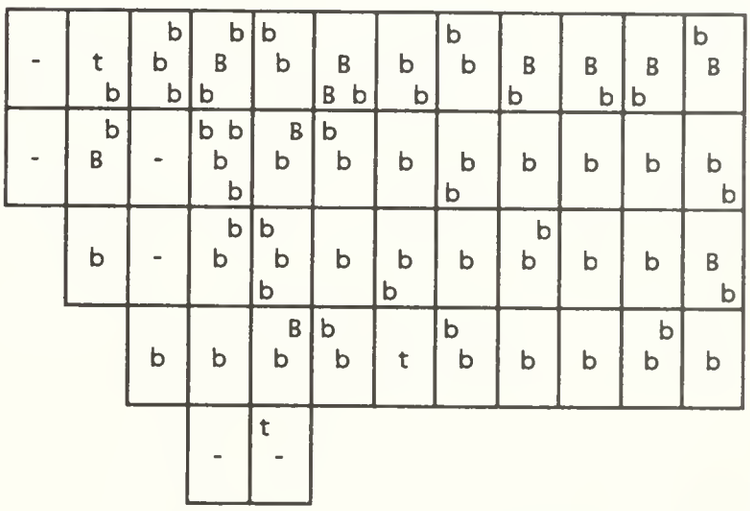
Chipping Sparrow
Spizella passerina



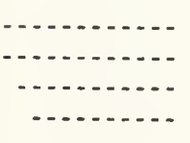


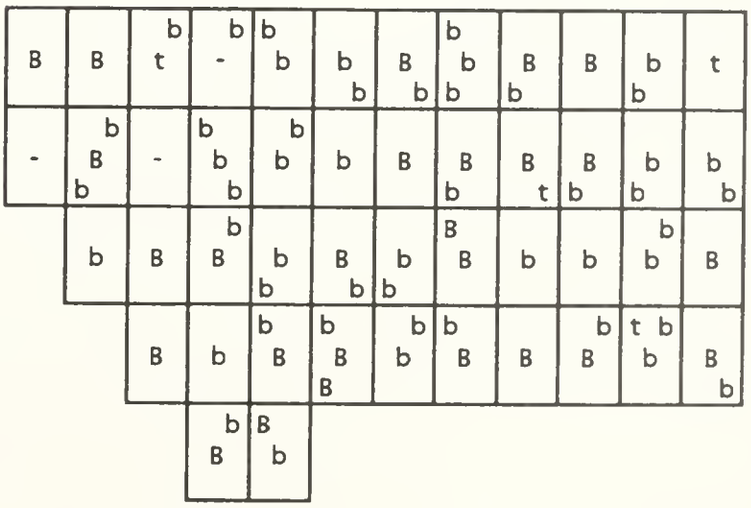
Clay-colored Sparrow
Spizella pallida



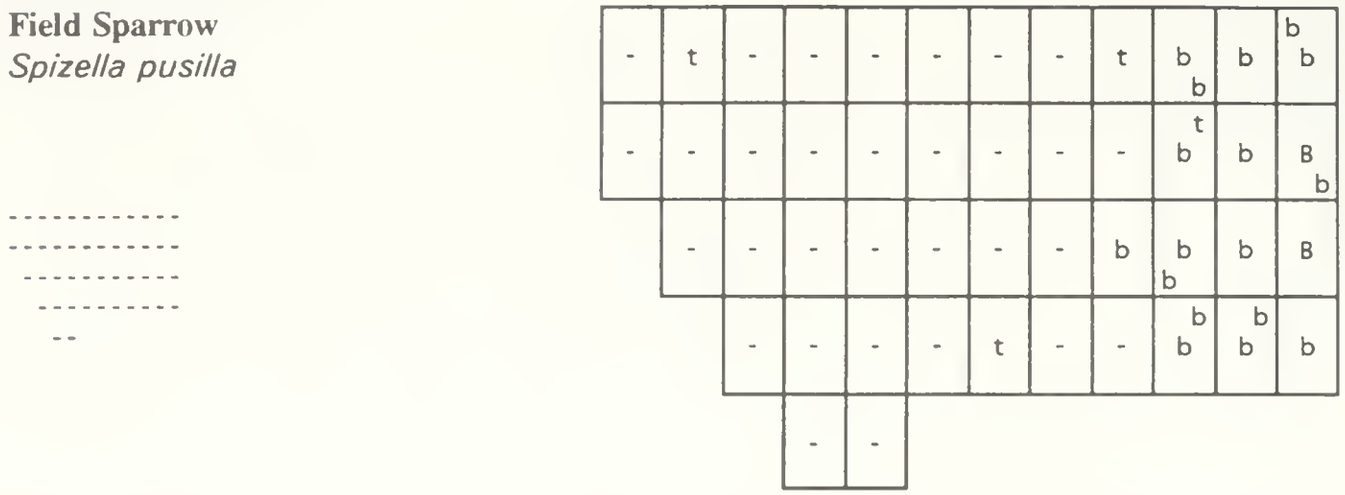


Brewer's Sparrow
Spizella breweri

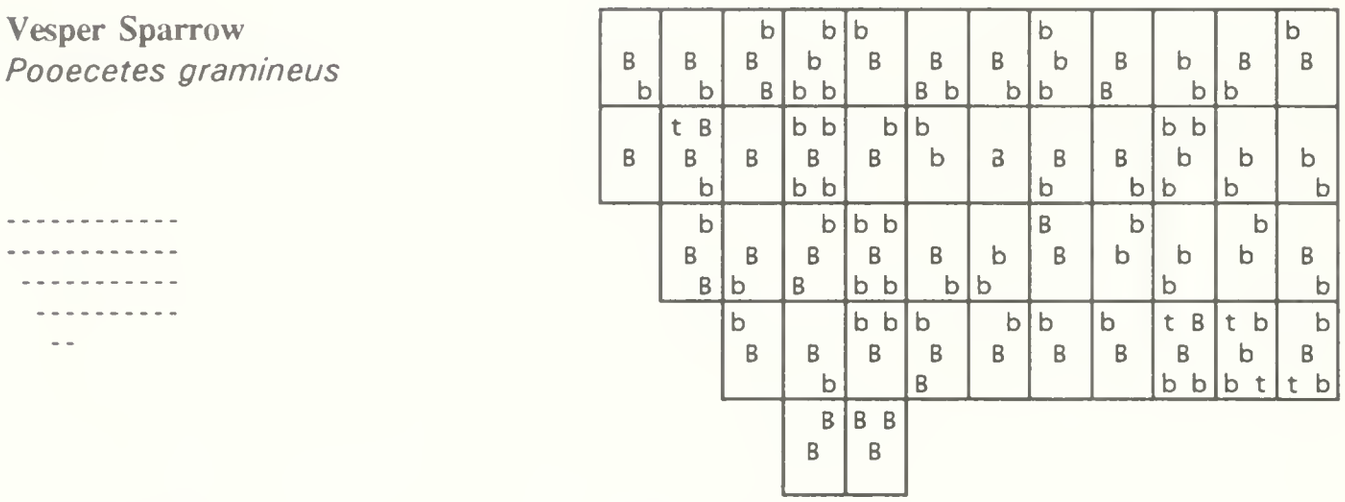




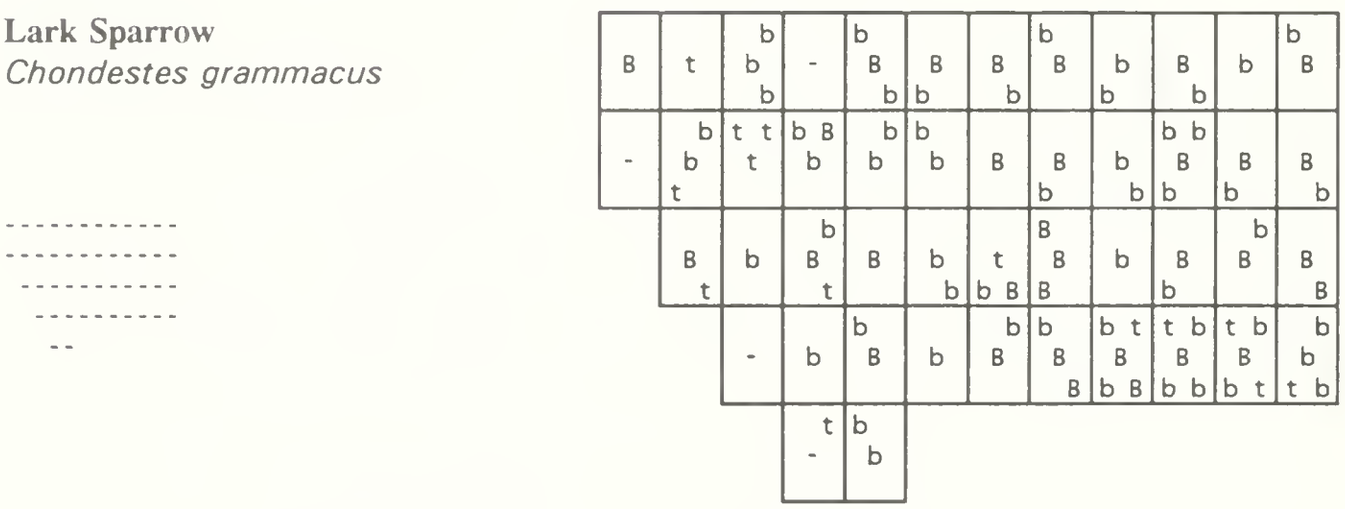
Field Sparrow
Spizella pusilla



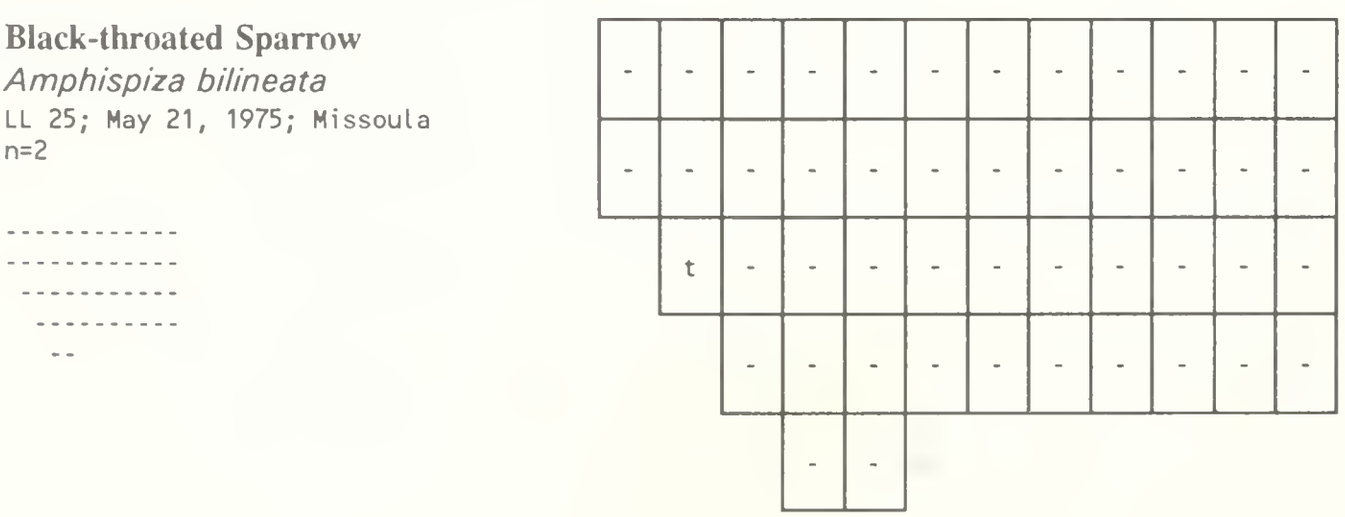
Vesper Sparrow
Pooecetes gramineus



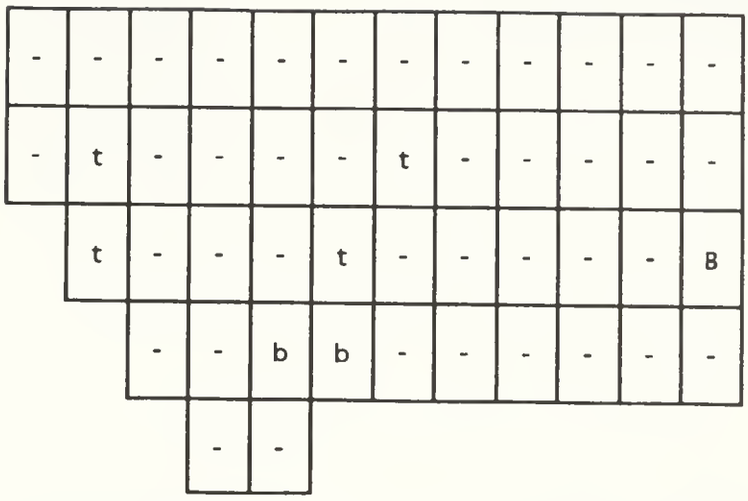
Lark Sparrow
Chondestes grammacus



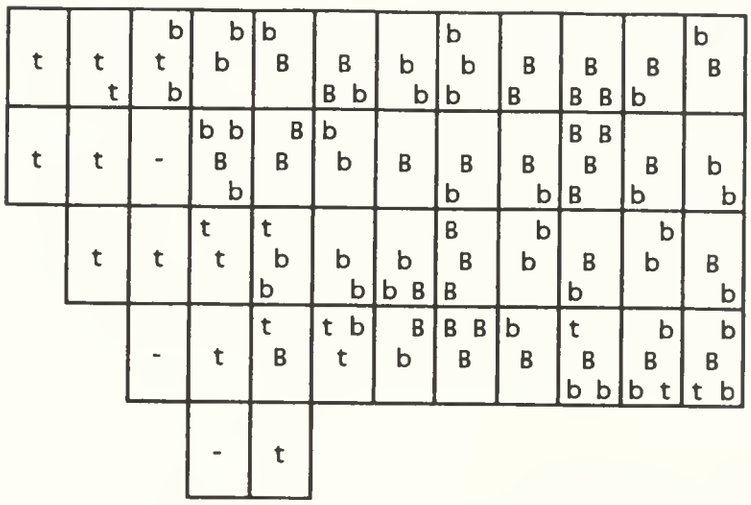
Black-throated Sparrow
Amphispiza bilineata
LL 25; May 21, 1975; Missoula
n=2



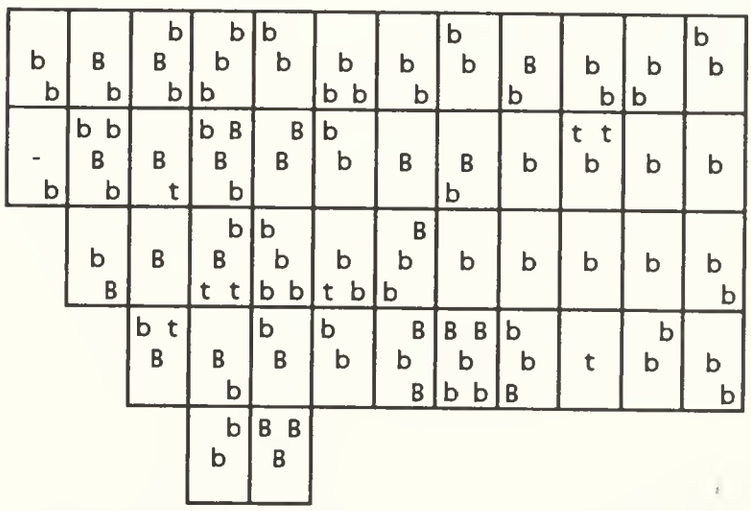
Sage Sparrow
Amphispiza belli
LL 35; June, 1984;
Fallon County
n=10 TES



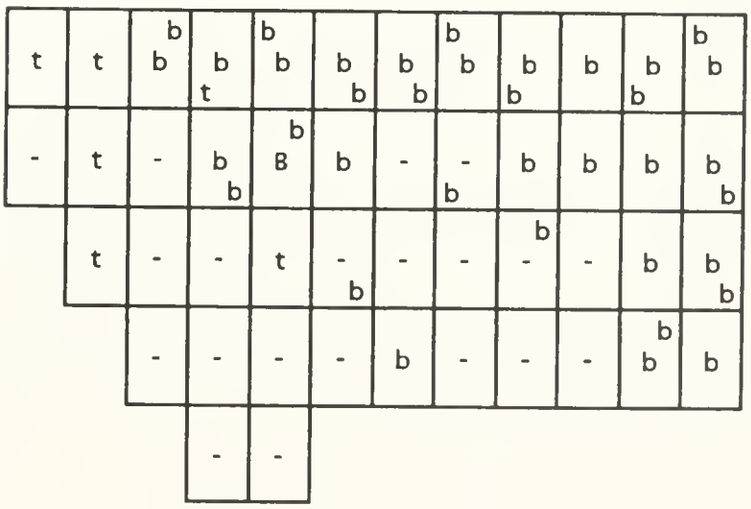
Lark Bunting
Calamospiza melanocorys



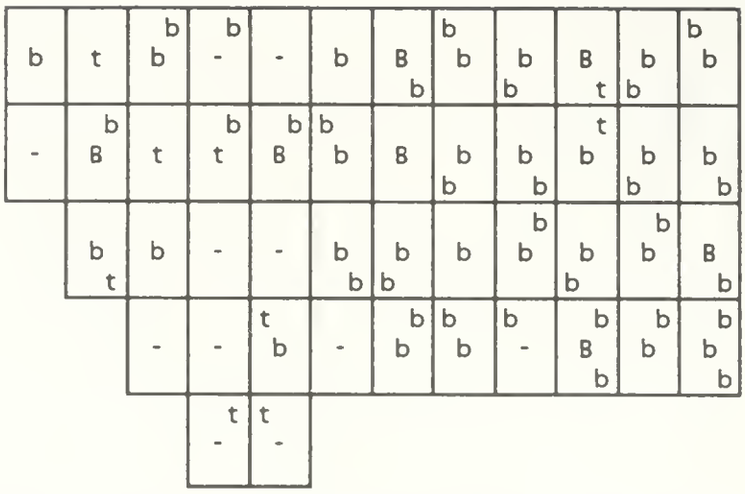
Savannah Sparrow
Passerculus sandwichensis



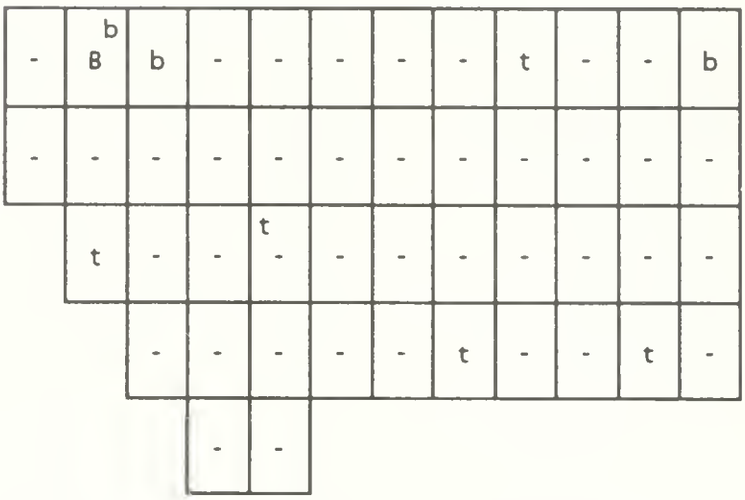
Baird's Sparrow
Ammodramus bairdii



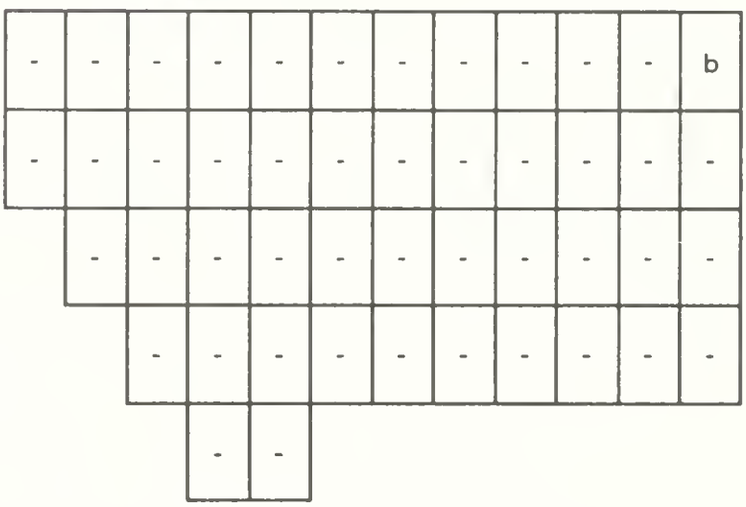
Grasshopper Sparrow
Ammodramus savannarum



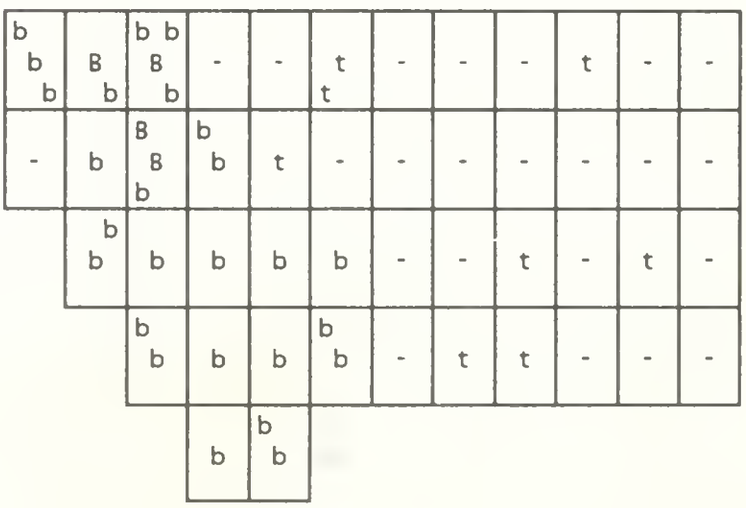
Le Conte's Sparrow
Ammodramus leconteii
QLL 28A; Oct. 6, 1990;
Lake Helena
n=17 TES



Sharp-tailed Sparrow
Ammodramus caudacutus
LL 12; Sept., 1943;
Medicine Lake
n=2

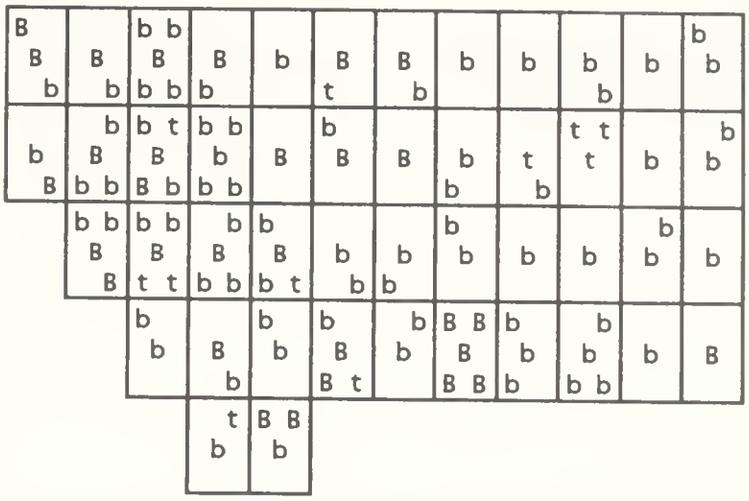


Fox Sparrow
Passerella iliaca



Song Sparrow
Melospiza melodia

```
WW---W---W--
WWW-W-W-----
 WWWW---W-W-
  -WWW-W-W--
   -W
```



Lincoln's Sparrow
Melospiza lincolnii

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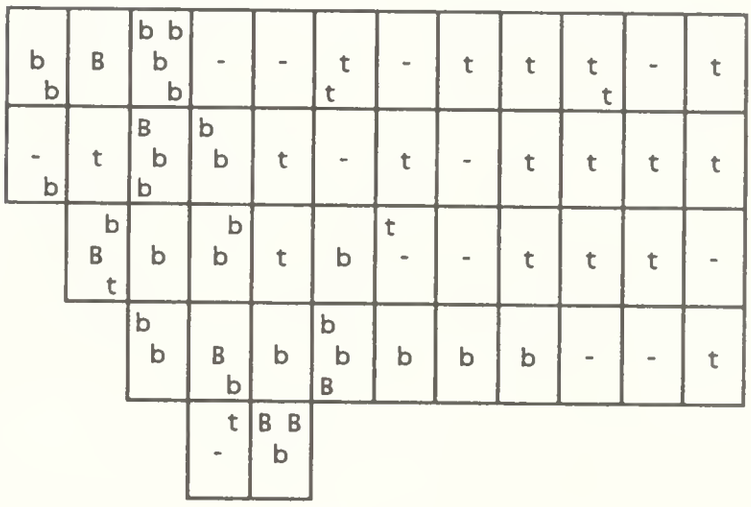

Swamp Sparrow
Melospiza georgiana
LL 41; Oct. 24, 1981
n=8

```
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 -W--------
  ----------
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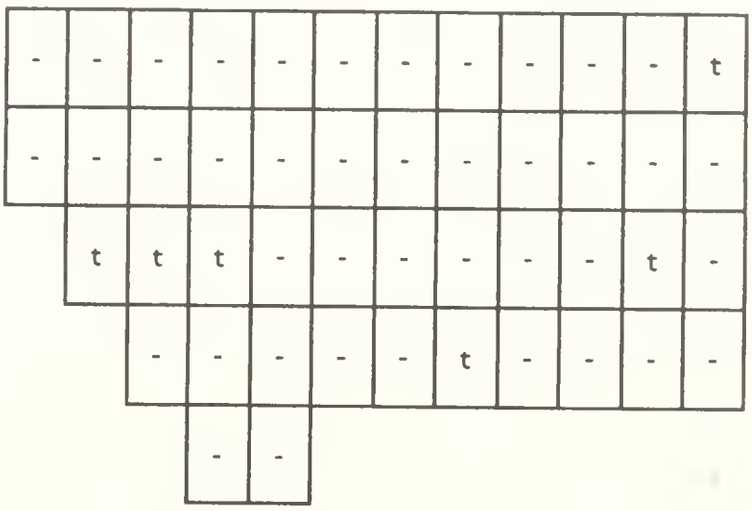
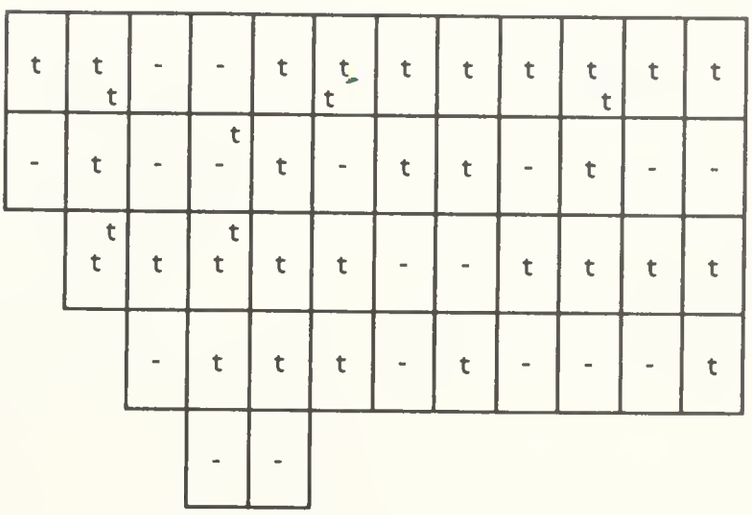
```



White-throated Sparrow
Zonotrichia albicollis

```
WW----------
--W---------
 WWW--------
  --WW-W----
   --
```



Golden-crowned Sparrow
Zonotrichia atricapilla
QLL 9C; May 13, 1988;
Bowdoin NWR
n=4

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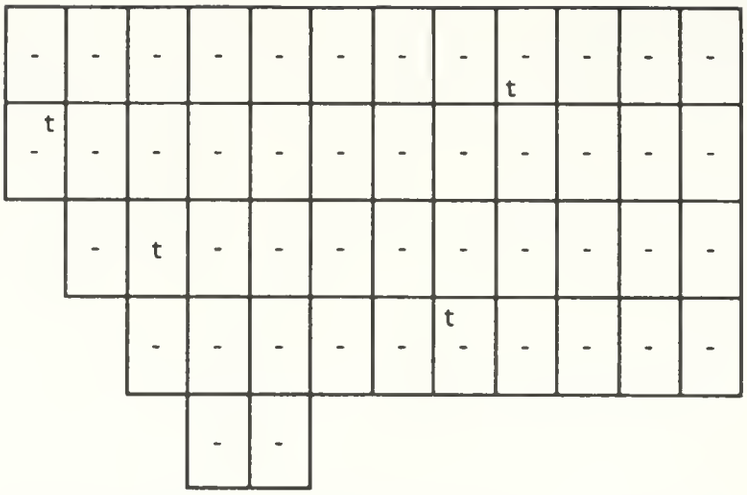
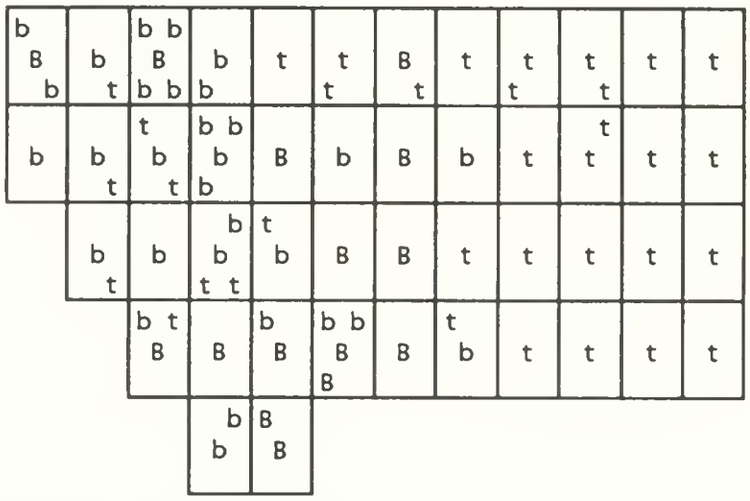


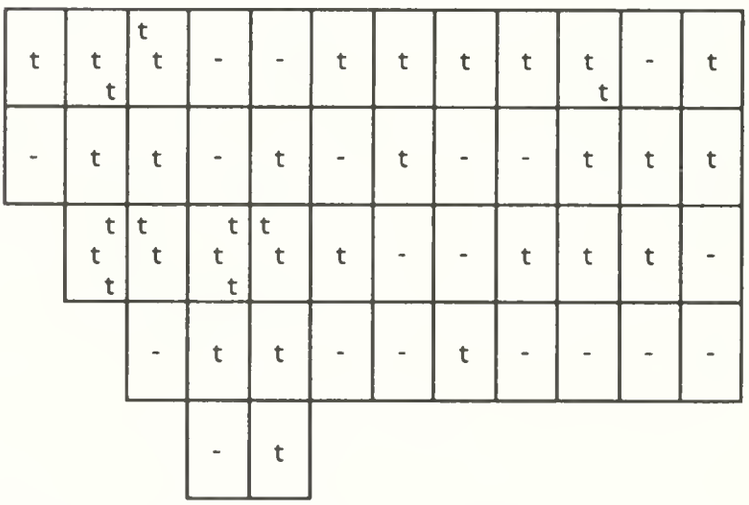
White-crowned Sparrow
Zonotrichia leucophrys

```
ww----w-----
--w---------
 W--w-------
  ---W-w----
   -w
```



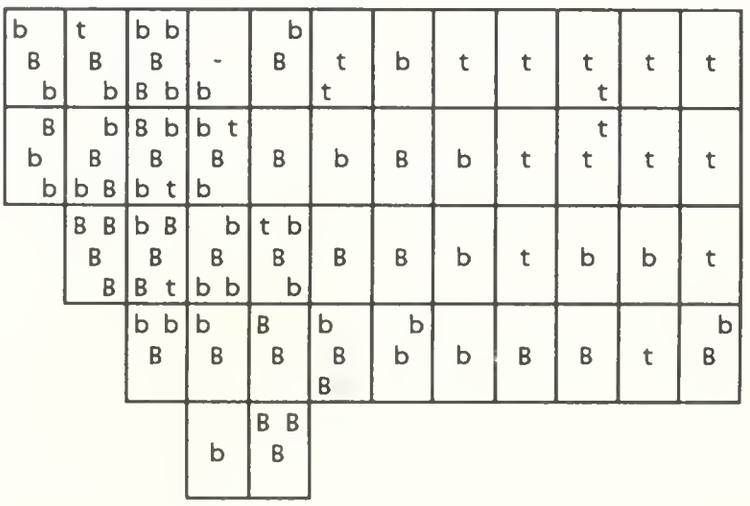
Harris' Sparrow
Zonotrichia querula

```
ww---W--W--W
-WW---w-----
 WWww----Ww-
  -WWW-W----
   --
```

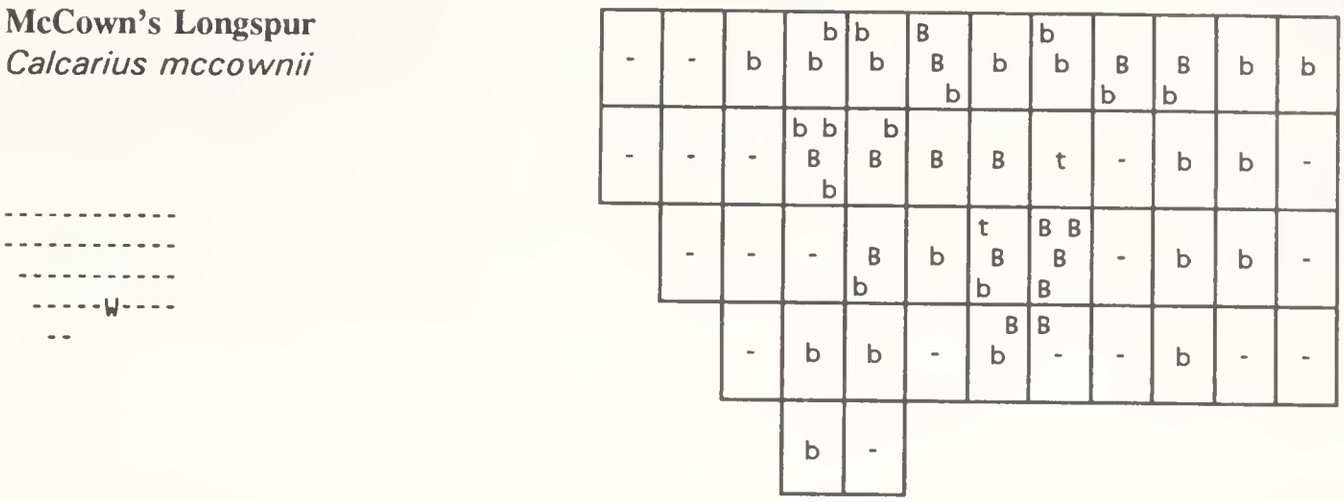


Dark-eyed Junco
Junco hyemalis
SI

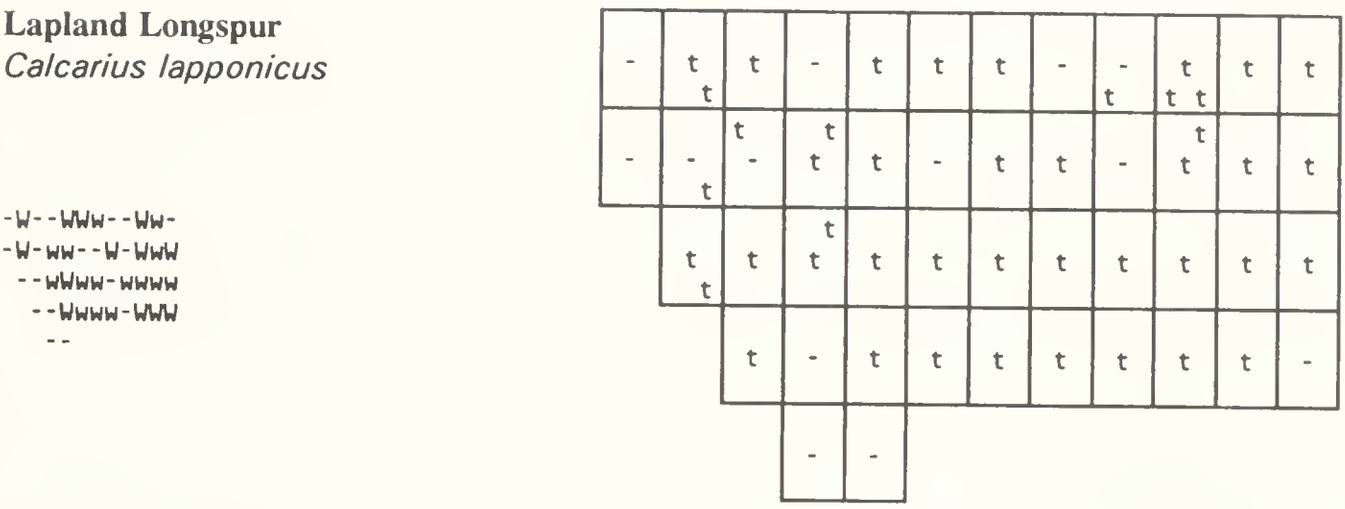
```
WWW-W---WW-w
WWW-w-W----w
 WWWW--WWWW-
  -WWW-W-W-W
   -w
```



McCown's Longspur
Calcarius mccownii

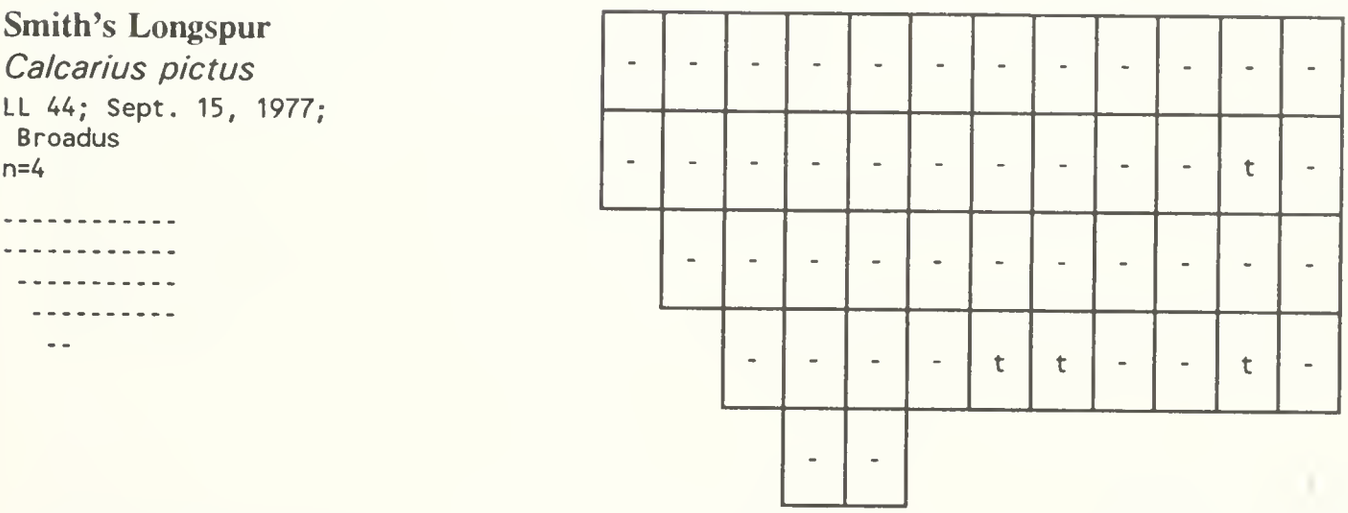


Lapland Longspur
Calcarius lapponicus

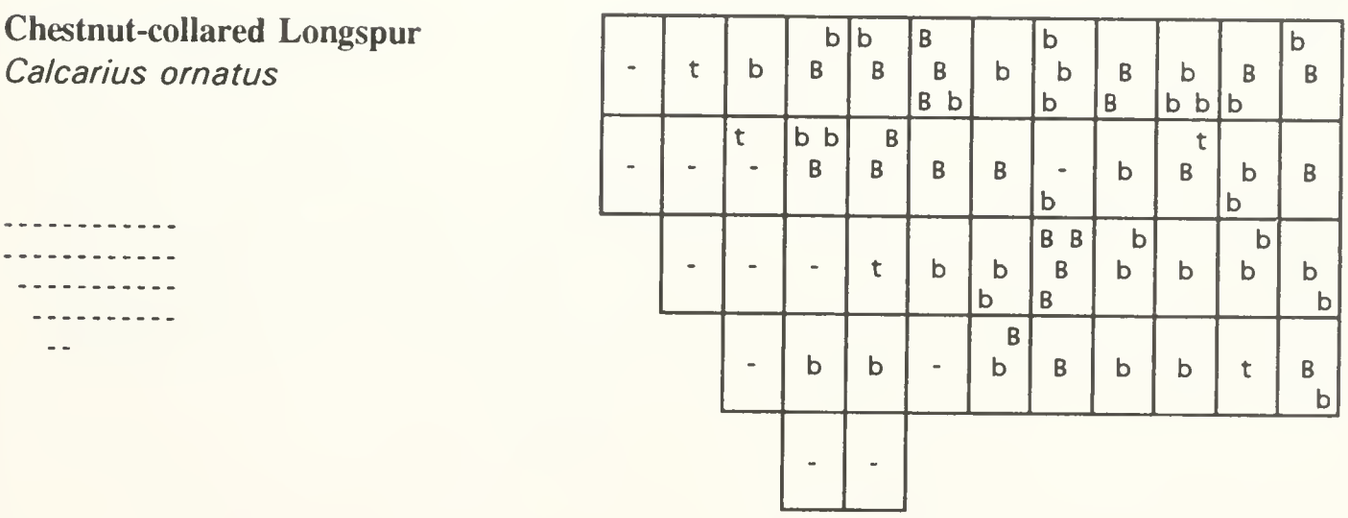


Smith's Longspur
Calcarius pictus

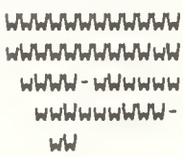
LL 44; Sept. 15, 1977;
Broadus
n=4

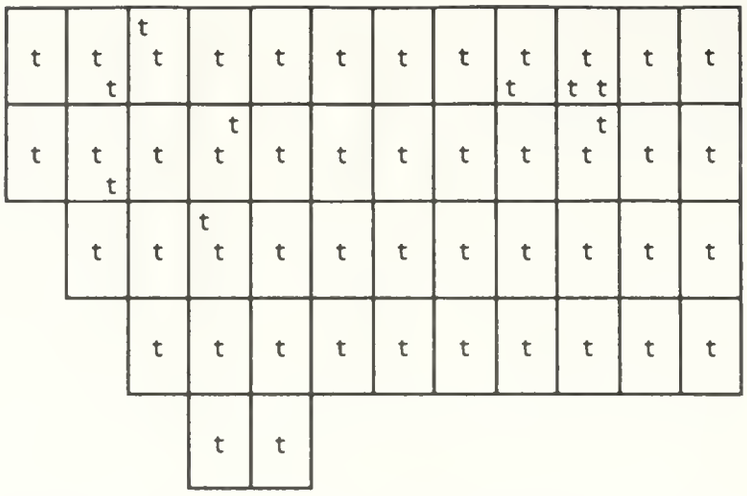


Chestnut-collared Longspur
Calcarius ornatus



Snow Bunting
Plectrophenax nivalis





Bobolink
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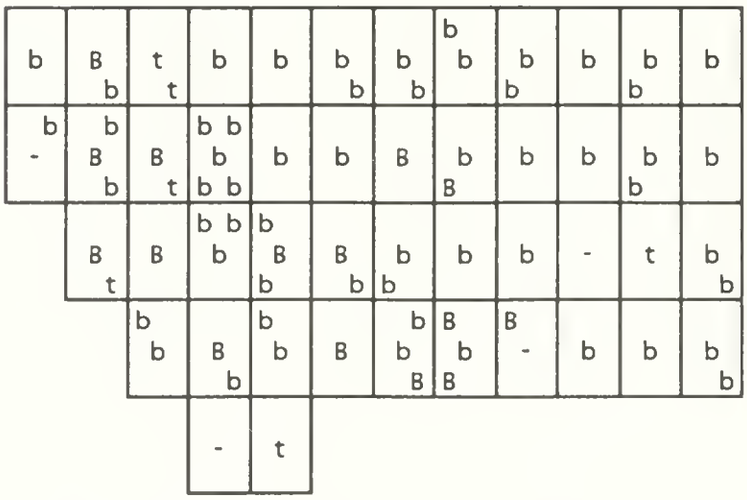
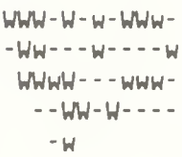
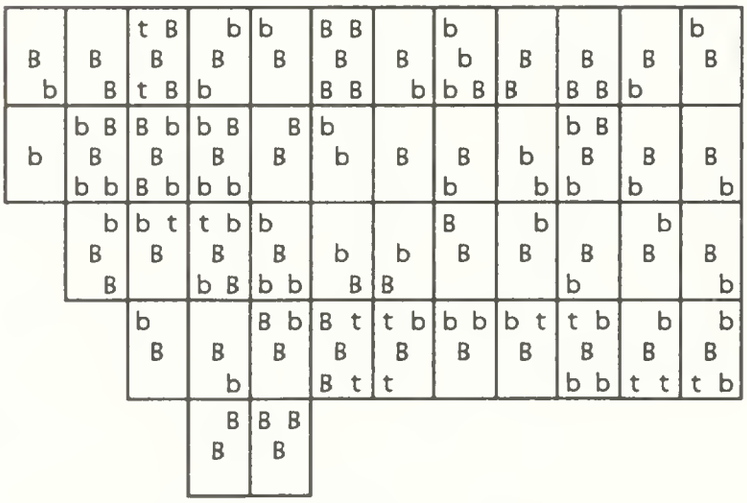
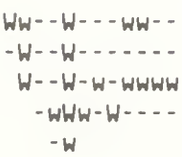


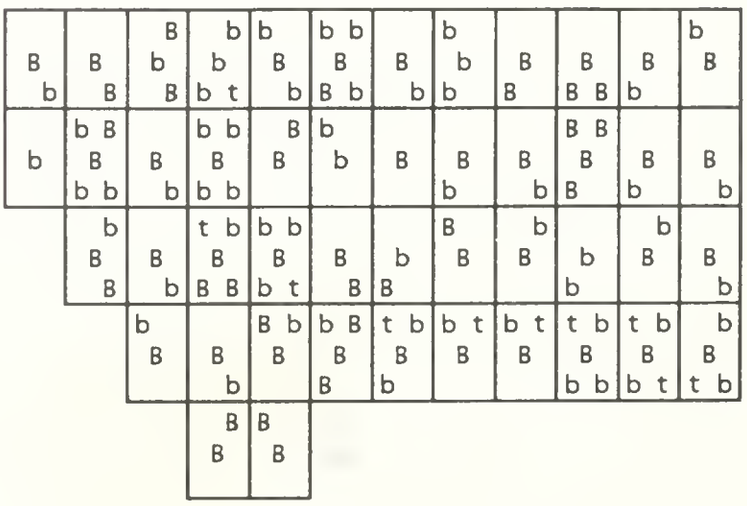
Red-winged Blackbird
Agelaius phoeniceus



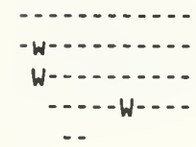


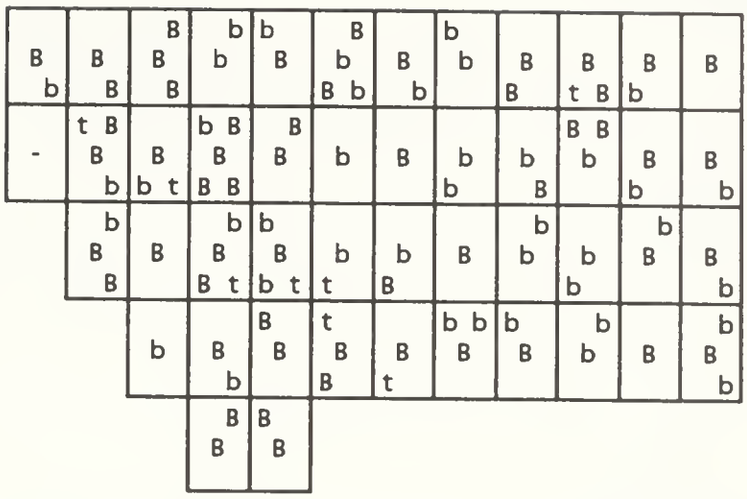
Western Meadowlark
Sturnella neglecta



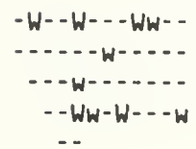


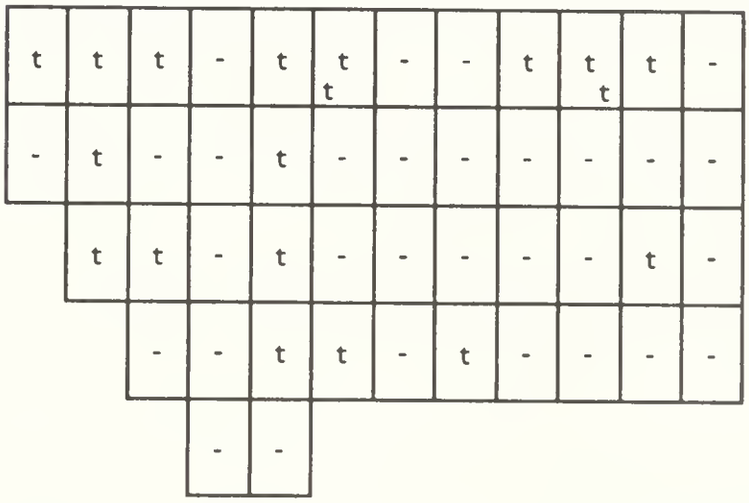
Yellow-headed Blackbird
Xanthocephalus xanthocephalus





Rusty Blackbird
Euphagus carolinus





Brewer's Blackbird
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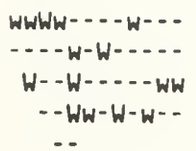
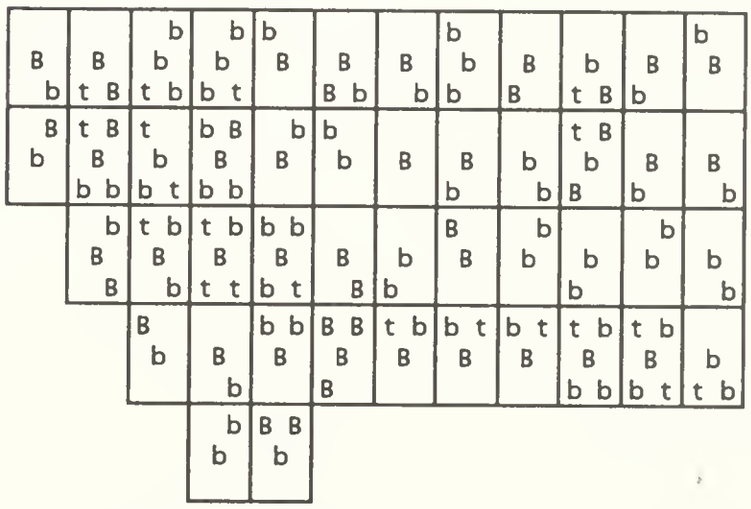
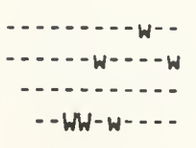
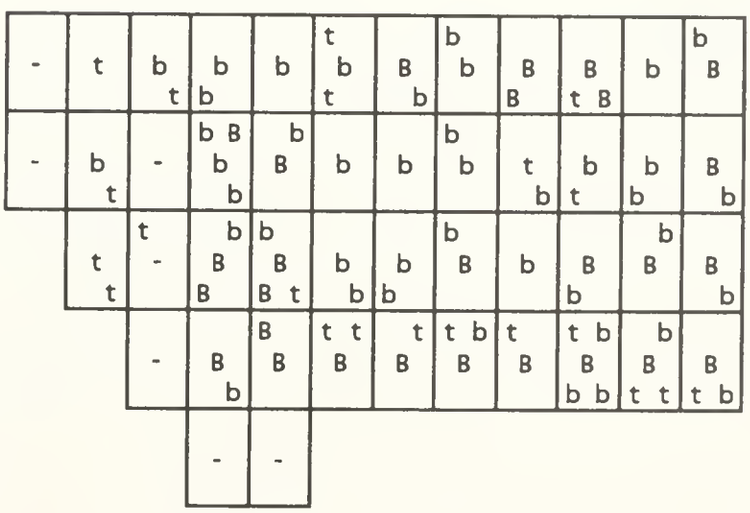


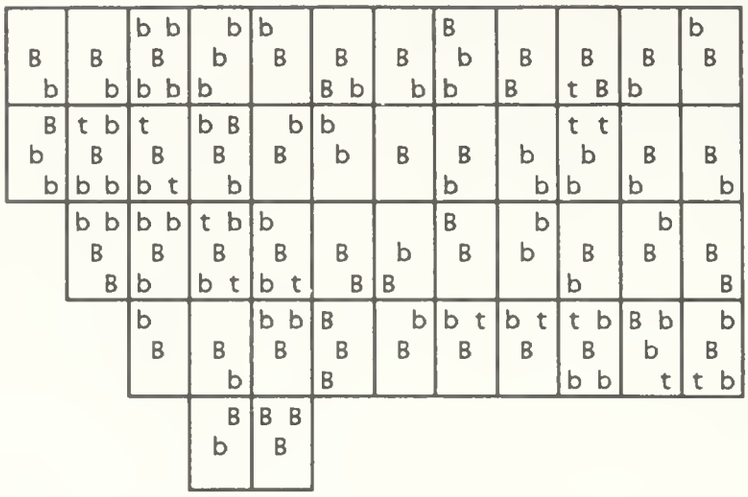


Common Grackle
Quiscalus quiscula

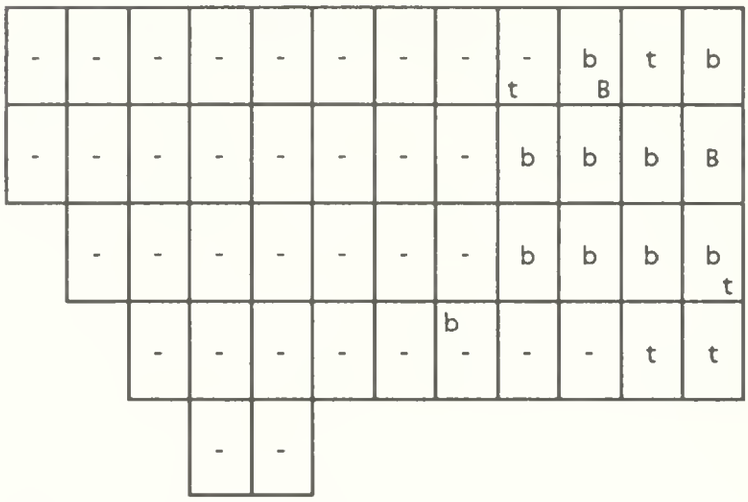




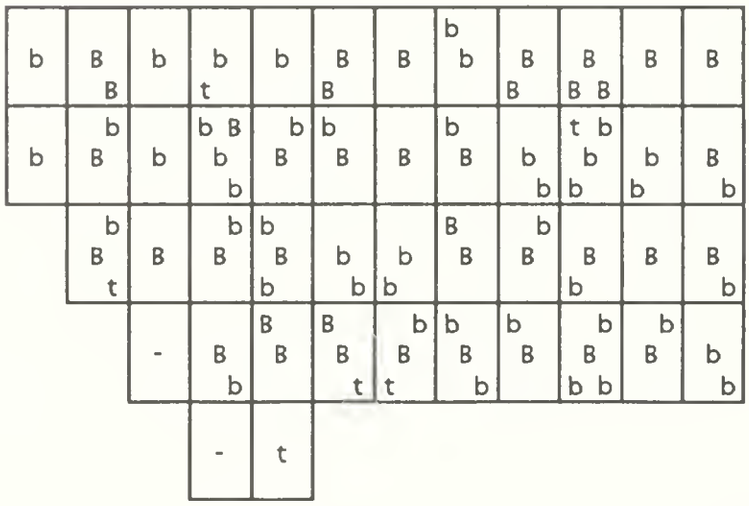
Brown-headed Cowbird
Molothrus ater



Orchard Oriole
Icterus spurius

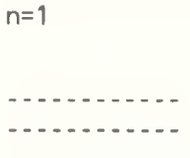


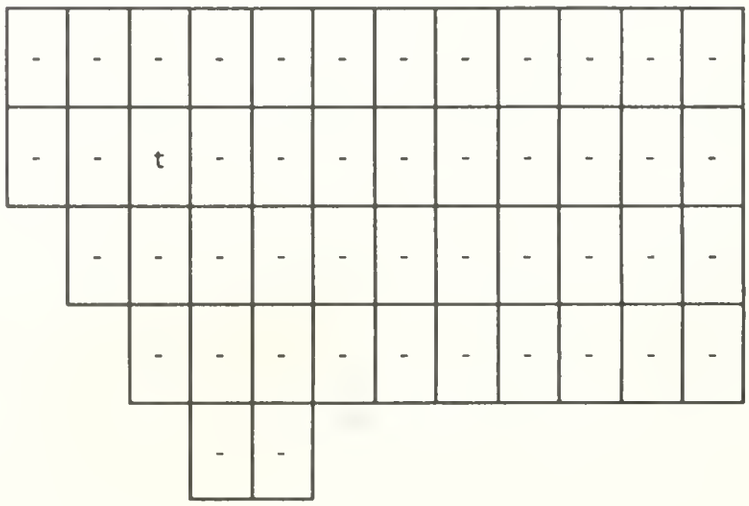
Northern Oriole
Icterus galbula
SI



■ Fringillidae

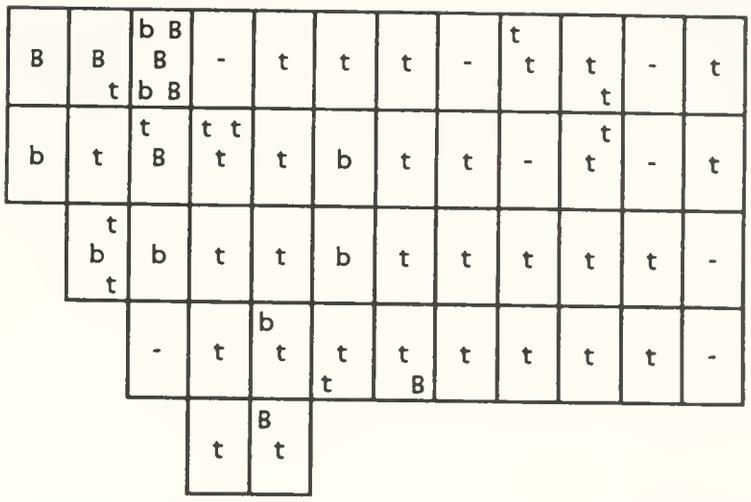
Brambling
Fringilla montifringilla
LL 15; Dec. 3, 1978; Swan lake
n=1





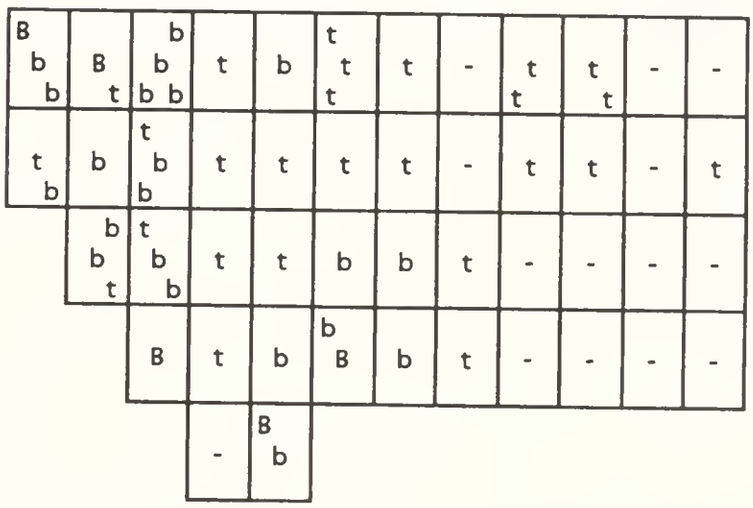
Rosy Finch
Leucosticte arctoa
SI

```
WWW-WWW-Ww-w
-WWWWWWW---W
 w-WWWW-WWW-
  -WWWWWWWWW
   WW
```



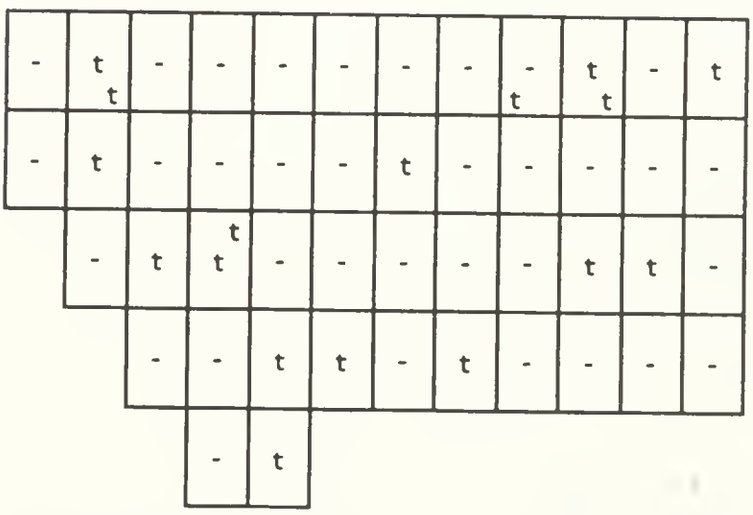
Pine Grosbeak
Pinicola enucleator

```
WWW-w-w-Ww--
WWW-WWW-w---
 WWWW--w---W
  WWWWWW----
   -W
```



Purple Finch
Carpodacus purpureus

```
--------Ww--
------W-----
 -W------W--
  --WW-W----
   --
```



Cassin's Finch
Carpodacus cassinii

```
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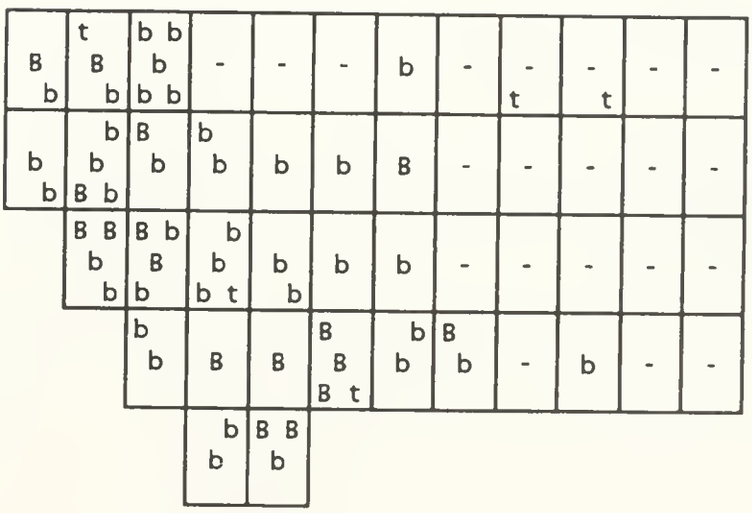
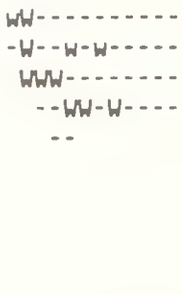
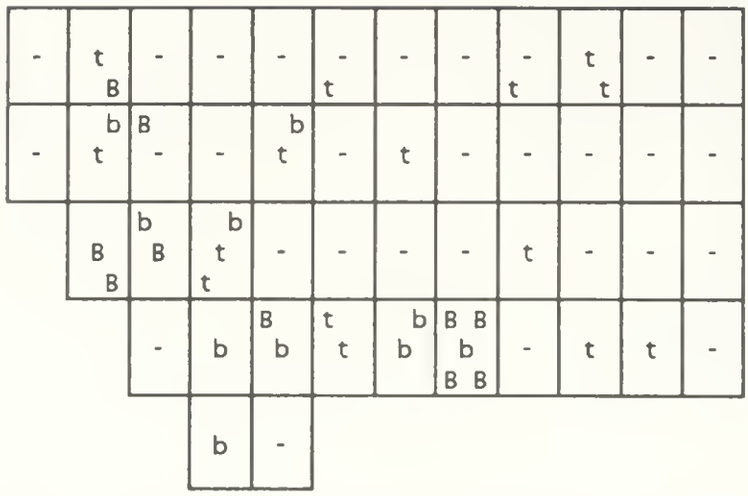
WWW---W-----
 WWW--------
  --WW-W-W--
   -W
```

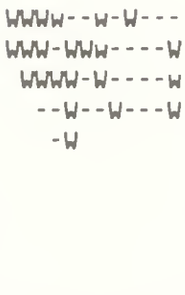


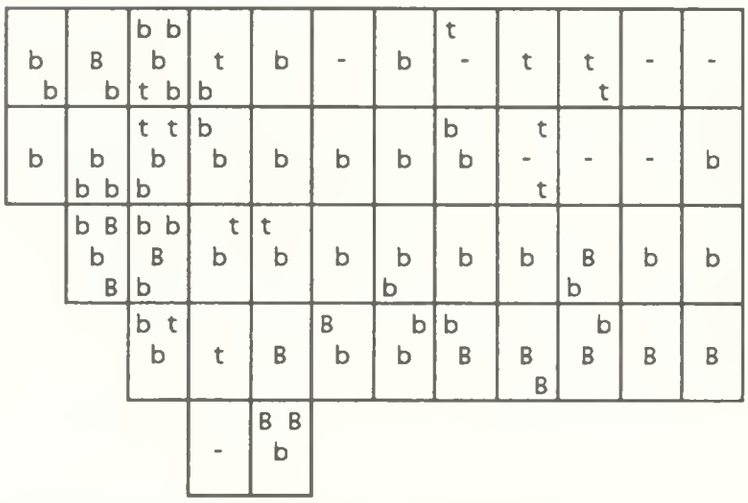
House Finch
Carpodacus mexicanus



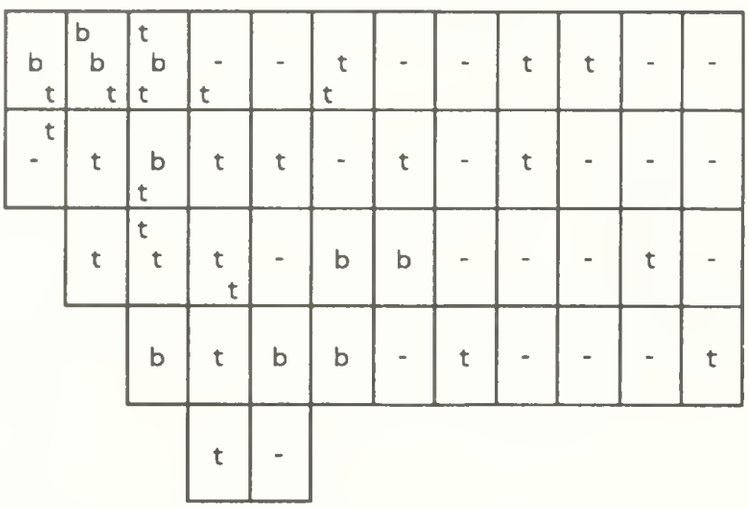


Red Crossbill
Loxia curvirostra

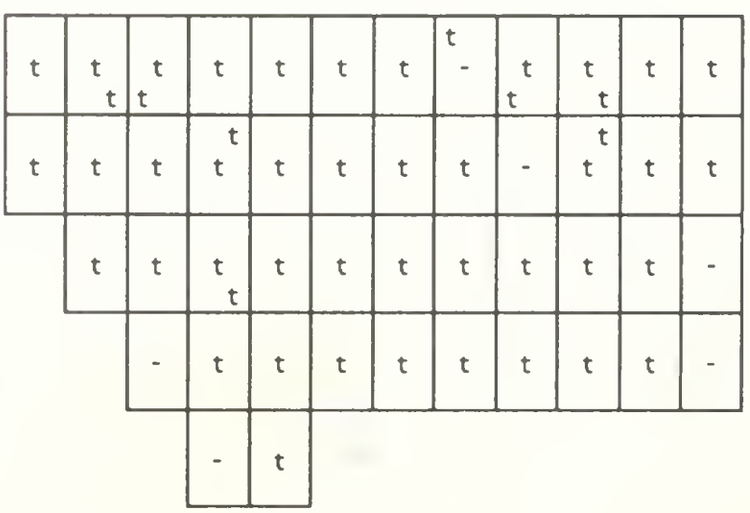




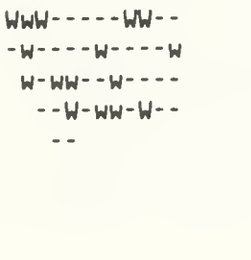
White-winged Crossbill
Loxia leucoptera

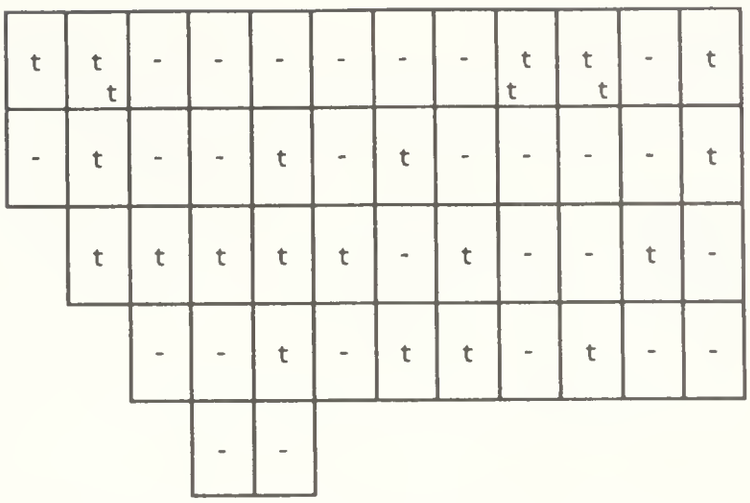


Common Redpoll
Carduelis flammea

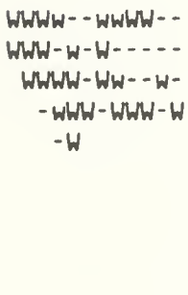


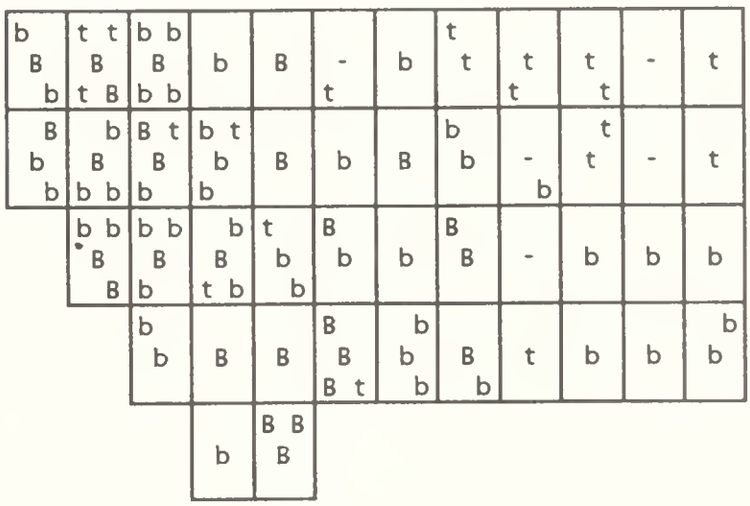
Hoary Redpoll
Carduelis hornemanni



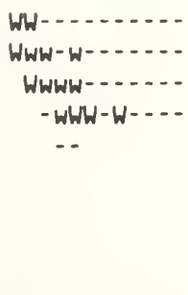


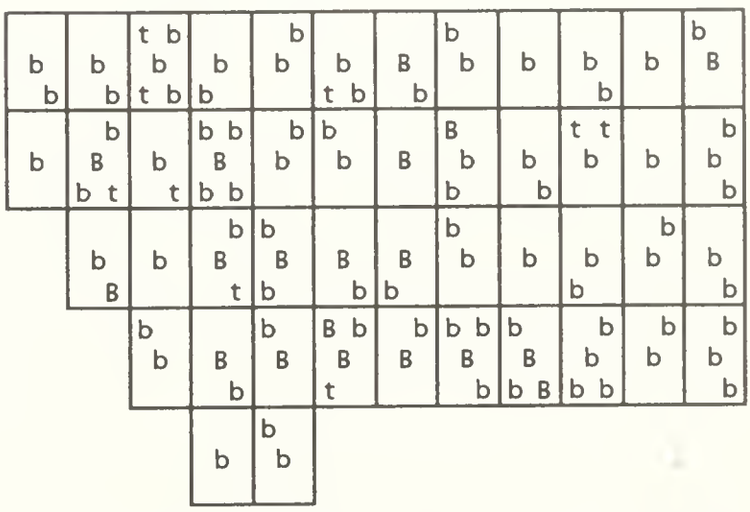
Pine Siskin
Carduelis pinus



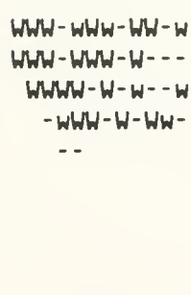


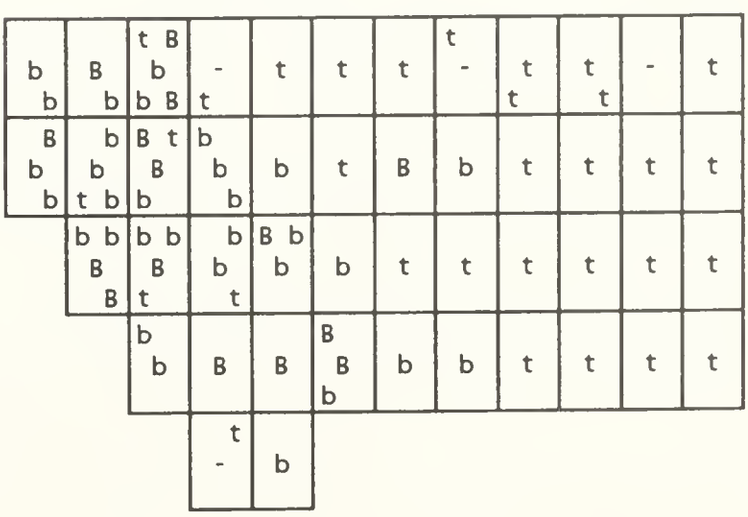
American Goldfinch
Carduelis tristis



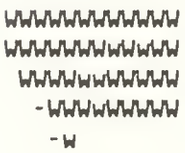


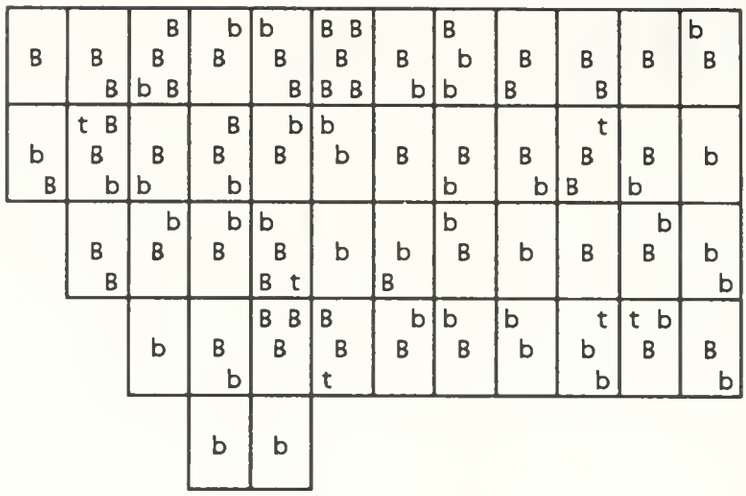
Evening Grosbeak
Coccothraustes vespertinus





House Sparrow
Passer domesticus
(introduced)





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Contributors to the Fourth Edition

More than 1000 Records:

Daniel Casey, Daniel Sullivan

501 - 1000 Records:

Lou Bruno, Charles M. Carlson, David Genter, Harriet M. Marble, Terry McEneaney

101 - 500 Records:

Dwight Bergeron, Marcy M. Bishop, Clifford V. Davis, Kristi Dubois, Robert L. Eng, G. J. Frazier, S. J. Gniadek, W. Edward Harper, John Hartman, Sally Hejl, C. J. Hoff, George Holton, Judy Hoy, Elly G. Jones, Larry Malone, D. L. Martin, Fritz Prellwitz, Montana Natural Heritage Program, Sue Reel, W. P. Roney, Michael T. Schwitters, Don Skaar, D. Tribby, S. D. Weller, J. Young, Mike Young.

1 - 100 Records:

Peter Achuff, Connie Akers, Kathleen Anderson, Margaret Anderson, Paul Anderson, June Ash, Maria Ash, Rod Ash, Alice Austin, Art Aylesworth, Beth Baker, Tim Baker, Janissa Balcomb, Lee Ballard, Jim Barnum, Dale Becker, Benton Lake NWR staff, Arnold Bolle, Gordon Browder, James Brown, T. S. Burns, Tom Butts, Charles Campbell, Marion Campbell, Suzi Campbell, Joel Carlson, Lynn Clark, Jane Collins, Bob Daniels, Jerome DeSanto, Claude Demarest, Dave Dickson, Jeffery E. Dobb, Sr., Pat Dolan, Anne Dueker, Joseph Engler, David Ewer, Bebe FitzGerald, Dennis Flath, Roger Fliger, S. R. Flores, Betsy Follman, Christian Frazza, Sid Frisell, Bill Good, Deb Goslin, Harvey Hackett, David Hamilton, Denise Hamilton, D. Hanson, Tom Harris, Barb Hazlewood, Rob Hazlewood, D. Heide, J. Heide, Paul Hendricks, Cal Henry, Willis Heron, K. L. Hicks, Bobby Hoe, John Hofflund, Denver Holt, Martin Holt, Mary Holt, Bob Hoy, Peter Hunt, Dick Hutto, Jaimie Ingold, Warren Iverson, Sue Jackson, Ron Jenkins, Sara J. Johnson, Cedron Jones, Thomas S. Jones, Connie Kay, W. Kerling, Jill King, Craig Knowles, Thomas Komberec, B. Krepps, M. E. Krook, Bob Krumm, Douglas Laye, Rose Leach, K. Leichter, Tom Lemke, Cary Lund, Jeff Marks, Charles Marlen, Stephen Martin, L. McEvoy, K. McLaughlin, C. D. Mitchell, Gerald Mueller, Norma H. Nixon, Larry Nordell, Ted J. Nordhagen, Bart O'Gara, Chris Paige, R. L. Pearson, J. H. Phelps, Sandy Pletchet, T. Prellwitz, J. Regan, Katherine Roberts, James Rogers, A. Roogaard, Vicki Roth, Bill Ruediger, Dave Shea, G. Sipe, Jean E. Smith, Kalmar R. Stevenson, Don Stoecker, J. M. Story, Karen L. Stutzman, Marjorie Swanson, Jon Swenson, Maureen Theilerr, B. Thompson, Gordon Thompson, William L. Thompson, R. A. Thorbert, Dorinda Trautman, Dave Trochlell, S. Turman, Jamie Turner, Steven Turner, Bob Twist, Virginia Vincent, J. D. Waldo, Robert Wallace, Byron Weber, Winton Weydemeyer, Carl Wolf, Dave Worthington, Philip L. Wright, Anne Zimmermann.

Appendix A. List of Threatened, Endangered, and Sensitive Species (TES) and species requiring Supplemental Information (SI)

TES	SI
Common Loon	Double-crested Cormorant*
American White Pelican	Great Blue Heron*
White-faced Ibis	Black-crowned Night Heron*
Trumpeter Swan	Mute Swan
Harlequin Duck	Franklin's Gull*
Bald Eagle	Ring-billed Gull*
Northern Goshawk	California Gull*
Ferruginous Hawk	Caspian Tern*
Peregrine Falcon	Common Tern*
Whooping Crane	Forster's Tern*
Snowy Plover	Eastern Screech-owl
Piping Plover	Western Screech-owl
Mountain Plover	Northern Flicker+
Least Tern	Cassin's Kingbird
Flammulated Owl	Yellow-rumped Warbler+
Burrowing Owl	Dark-eyed Junco+
Great Gray Owl	Northern Oriole+
Boreal Owl	Rosy Finch+
Black-backed Woodpecker	
Dickcissel	
Sage Sparrow	
Le Conte's Sparrow	

TES - Threatened, Endangered or Sensitive species. Please provide information on precise location, numbers of individuals, date of observation and details on nesting, if any.

SI - Species poorly known; little information on habitat preferences; questions on distribution; +subspecies distribution requested; *nesting colonies. Please provide date of observation, information on precise location, habitat, nesting details, if any.

Appendix B. Neotropical Migratory Bird Species in Montana

Killdeer
Mountain Plover
Marbled Godwit
Long-billed Curlew
Willet
Spotted Sandpiper
Upland Sandpiper
Turkey Vulture
Golden Eagle
Northern Harrier
Sharp-shinned Hawk
Cooper's Hawk
Northern Goshawk
Broad-winged Hawk
Red-tailed Hawk
Swainson's Hawk
Ferruginous Hawk
Osprey
American Kestrel
Merlin
Prairie Falcon
Peregrine Falcon
Mourning Dove
Yellow-billed Cuckoo
Black-billed Cuckoo
Short-eared Owl
Long-eared Owl
Flammulated Owl
Burrowing Owl
Common Poorwill
Common Nighthawk
Black Swift
Chimney Swift
Vaux's Swift
White-throated Swift
Black-chinned Hummingbird
Ruby-throated Hummingbird
Calliope Hummingbird
Broad-tailed Hummingbird
Rufous Hummingbird
Belted Kingfisher
Lewis' Woodpecker
Williamson's Sapsucker
Yellow-bellied Sapsucker
Red-naped Sapsucker
Eastern Kingbird
Cassin's Kingbird
Western Kingbird
Great Crested Flycatcher
Olive-sided Flycatcher
Eastern Wood-Pewee
Eastern Phoebe
Say's Phoebe
Hammond's Flycatcher
Dusky Flycatcher
Least Flycatcher
Willow Flycatcher
Cordilleran Flycatcher
Horned Lark
Tree Swallow
Purple Martin
Violet-green Swallow
Northern Rough-winged Swallow
Bank Swallow
Cliff Swallow
Barn Swallow
Brown Creeper
House Wren
Marsh Wren
Sedge Wren
Rock Wren
Ruby-crowned Kinglet
Eastern Bluebird
Western Bluebird
Mountain Bluebird
Townsend's Solitaire
Veery
Swainson's Thrush
Hermit Thrush
American Robin
Loggerhead Shrike
Northern Mockingbird
Gray Catbird
Sage Thrasher
Sprague's Pipit
Water Pipit
Cedar Waxwing
Yellow-throated Vireo
Bell's Vireo
Solitary Vireo
Red-eyed Vireo
Warbling Vireo
Tennessee Warbler
Orange-crowned Warbler

Nashville Warbler
Black-and-white Warbler
Yellow-rumped Warbler
Townsend's Warbler
Yellow Warbler
MacGillivray's Warbler
Wilson's Warbler
Ovenbird
Northern Waterthrush
Common Yellowthroat
American Redstart
Yellow-breasted Chat
Rose-breasted Grosbeak
Black-headed Grosbeak
Lazuli Bunting
Indigo Bunting
Dickcissel
Rufous-sided Towhee
Green-tailed Towhee
Grasshopper Sparrow
Baird's Sparrow
Vesper Sparrow
Savannah Sparrow
Lark Sparrow
Sage Sparrow
Chipping Sparrow
Clay-colored Sparrow
Brewer's Sparrow
Dark-eyed Junco
White-crowned Sparrow
Fox Sparrow
Song Sparrow
Swamp Sparrow
Lincoln's Sparrow
Chestnut-collared Longspur
McCown's Longspur
Lark Bunting
Bobolink
Western Meadowlark
Red-winged Blackbird
Yellow-headed Blackbird
Brewer's Blackbird
Orchard Oriole
Northern Oriole
Western Tanager
Scarlet Tanager
Pine Siskin
American Goldfinch
Cassin's Finch

Appendix C. Hypothetical Species List

Some of these sighting are very old and probably should not be considered as species likely to be found in Montana. They have been carried over from the Third Edition pending further review by the editors and the verification committee. The newer records have not been reviewed by the verification committee and may be incorporated into the Fifth Edition.

Common Eider. L24: 1907.
Eskimo Curlew. L12: 1858, 1862, 1973.
Spotted Owl. L2: 1927. L3: 1959, 1976.
*Yellow-bellied Sapsucker. QLL 3C: 1991.
Bewick's Wren. L15: 1973. L25: 1973.
Phainopepla. L3
Bell's Vireo. L12: 1858.
Blue-winged Warbler. L41: 1984.
Virginia's Warbler. L37: 1976.
*Painted Redstart. QLL 25A: 1987.
*Cardinal. QLL 42C: 1987.
Painted Bunting. L43: 1978.

*new since the Third Edition

Appendix D. Breeding Status Code Definitions

B Use of the "B" to designate breeding requires "hard evidence." A "B" can be hard to get. Do not assume breeding simply by presence or behavior. Use the "B" only if one of the following criteria are met.

1. Occupied nest. Adults entering or leaving nest site in circumstances indicating an occupied nest (includes high nests or nest-holes, the contents of which cannot be seen) or adult incubating or brooding.

2. Recently fledged young (of altricial species) incapable of sustained flight, or downy young (of precocial species) restricted to the natal area by dependence on adults or limited mobility.

3. Attending young; adult carrying food or fecal sac for young, or feeding recently fledged young.

4. Used nest or eggshells found (Caution: identification must be convincing if such records are to be accepted).

5. Nest with egg(s) which can be clearly identified. The presence of cowbird eggs or young is confirmation of breeding for both cowbird and host species.

6. Nest with young, seen or heard, which can be clearly identified.

b Breeding is supported by circumstantial evidence.

1. Singing males, pairs or territorial birds observed in suitable nesting habitat during the species' breeding season.

2. Courtship behavior or copulation.

3. Adults visiting a probable nest site.

4. Agitation behavior, distraction display, injury feigning, or anxiety calls from an adult.

5. Nest building.

6. Physiological evidence of breeding (brood patch or eggs in oviduct) based on bird in hand.

t No evidence of breeding. Transients; migrants; or mobile, wide ranging species that exhibit no breeding behavior at the time of observation.

- No records

Appendix E. **Rare Bird Report Form**
(For Species Annotated TES, SI, n=)

Species: _____ Observer's Name:
_____
Date Observed: _____ Address:
_____
Reporter's Name: _____ _____
_____
Date Written: _____ Telephone No: _____
Other Observers: _____

QLL: _____ Nearest Town/Landmark: _____
Specific Location: _____
_____
_____Township____Range____Section_____
Describe the Habitat: _____
_____
Plumage(Circle) Sex ___M Describe Weather: _____
Adult Immature ___F _____
Subadult Juvenal ___Unk _____
Optics Used and Power:
___X___ Binoculars ___X Spotting Scope ___ Unaided Eye
Quality and direction of light. _____

Distance from Bird: _____ Duration of Observation: _____
Previous Experience with Species? Where and when: _____
_____
Discuss How Similar Appearing Species were Eliminated: _____
_____
_____
_____
This Report was Written: ___ During or right after observation
___ From memory __hrs/__days later.

Describe the bird you observed. Record only field marks and behaviors you actually saw. State size (compared to similar size common bird). Record **relevant** information such as color, body shape, bill, legs, voice, behavior, no. of individuals, sex. Use back of form if more space is needed. Please include any photos or drawings. **Print or type clearly.**

Send your report to:
Montana Bird Distribution Update
Natural Heritage Program
1515 East Sixth Avenue
Helena, MT 59620

4th Ed|1992

Appendix F. Quarter Latilong (QLL) Recording Sheet

Qll_____ Name_____ Address_____ PH:_____

Common Name	Status(B,b,t,W,w)	Date	Location

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The last word of the common name is indexed for species found in this book. Several topics and subjects have been included from the text.

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NOTES

---- Response Form ----

Please tear out, complete, and return to:

Montana Bird Distribution
c/o Montana Natural Heritage Program
1515 E. 6th Ave.
Helena, MT 59620

FORMAT

1. Are the maps in this book intelligible and useful?

2. Please indicate which format you would prefer for the next edition of this book:
   a. whole latilong records only (no quarters)
   b. same as this book
   c. quarter latilong records only (no centers)
   d. other:

3. Do you have any comments or suggestions regarding the maps of winter records?

4. Do you have any comments or suggestions regarding the overall size and format of the maps and of the whole book?

DATA

5. Please indicate what kind of data you would prefer for the next edition of this book:
   a. cumulative records of observations through time, as in the first three editions
   b. only those observations reported since the previous edition (as discussed in the text)
   c. other:

6. Would you recommend any additions to or deletions from the current set of "observation types" (B,b,t,w,W)?

7. Are there other kinds of data that you'd like to see in the next edition (e.g., spring arrivals, fall departures, abundance, habitats)? If yes, please describe.

GENERAL

8. How often do you think this book should be updated?

9. Would you prefer a fancier book (e.g., photos, graphics, nicer design, nicer paper)?

10. What can we do or provide to help you send us more data?

11. How could we improve the text in the book to make it more understandable or useful to you?

12. Anything else?

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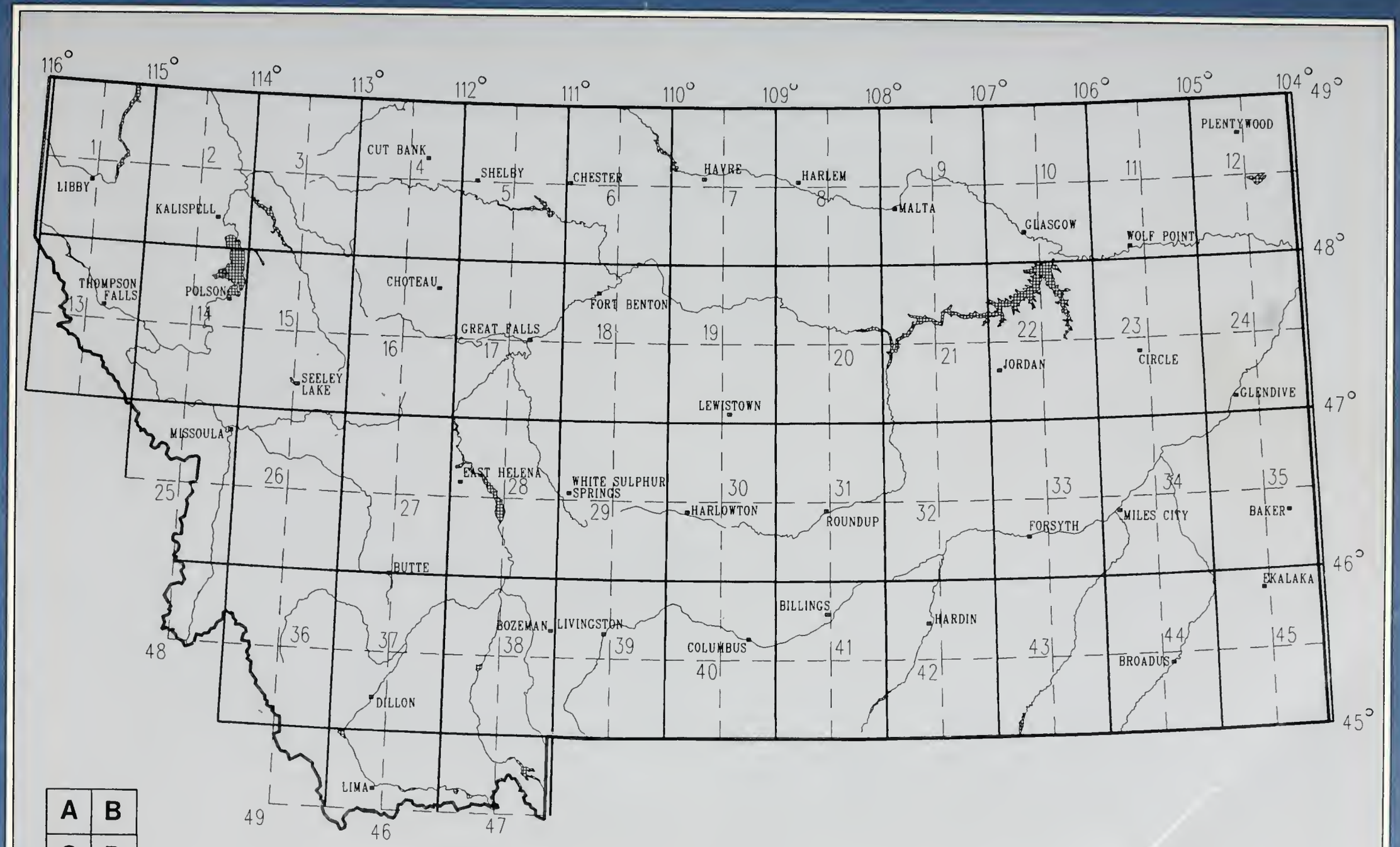

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